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### SNK NeoGeo X Gold JXD Android Retro £124.99 £99.99 Gaming Tablet 21 NeoGeo Games included WIED Dreamdist. 32× Hami GAME BOT ADDRESS MARCA NEORGEON The SNK Needles X is a handheld Nee Gea games console with 29 built in original Needles AES games. The Gold Limited Editor package comes with an authentic arcade slick and AES style docking station to connect to your TK. The JXD \$7800% is an Android rotro gaming tablet. It is sayable of playing even the most complex of retro games, including PS1, N64, MAME and Dreamcast and capable of stayinging these or your 79 we r0200. Super Retro Trio C Commodore 64 Book 3 in 1 Retro Console A Visual Commpendium motore MegaDrive, NES, SNES The Super Fields Tria plays Nintendo NES games, Nintendo SNES games and SEGA GENESIS / SEGA **REGA DRIVE games**: irectly from the original elen garne carbridges/ £74.99 -SEGA Wireless 80 Games Included A Z player SEGA Mega Drive consile with \$8 built in Commodore 64: A book celebrating the visual side of the pionous SEGA games (including Sonic the Hedgehog 1 + 2). d visual Commpandi Commodore 64 (aka C64) computer and games; lach spread features a beautiful image and a You can also use original selest few words from original developers; SEGA Mega Drive games; journalists, artists and more... SEGA Genesis games and £24.99 £44.99 cartridges from all regions Atari Bag Street Fighter Monopoly **SEGA Ultimate** MONOPOLY Sonic the Hedgehog Special Edition version of Officially licensed Atari dark red Alari messenger bag for the SEGA Ultimate retro **Officially Licensed** people on the move. Show video games caesole, 20 Street Fighter Collector's Edition built-in classic SEGA your love for Ateri and keepi all your flings secure all al. Hega Drive games and version of the Manager XD core (main)

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DARRAN JONES California Games for mail have fond memories of beating all my france at the surting event. Expertise:

Juccent a beautiful wife, two gorgeous girls and an awardwinning magazine Currently playing:

Callemental BARRANTES Favourite game of all time. Strengt



NICK THORPE Loculd try to not look like an obsessive fait ivere, but let's be Nonant - it's Sorve. Expertine: Con-ops, Sega hardware and

everything Minartias Currently playing: Pokerson Alpha Sapplere Fevoluite game of all time:



PAUL DRURY I'm no Master System componising but I was improvised by its version of Spric 2 and the dependably entertaining Wonder Boysenes. Expertise:

Christmases past Currently playing: Trace Kill

Favourite game of all time: SPOOD IN Spoce



frame and

1000

GHITE

here's the Christmas cover? It's something we'll certainly be returning to in the future, but we wanted to take this opportunity to support the 30th anniversary of one of the UK's most significant 8-bit games - Ian Bell and David Braben's Elite.

I can remember my first Elite encounter as if it was vesterday. I had gone around to see Andrew Joiner, who was unfortunate enough to own a BBC Micro. I say unfortunate, because we'd all take the mickey out of him at school as he had the same computer we used for our schoolwork. It was Andrew who had the last laugh, however, as he owned Elite and it was really quite awesome. While I didn't personally like playing Elite (it was far too fiddly for me), I could sit and watch him explore in that game for hours, occasionally taking over for the epic dogfights it offered. There's an amazing sense of wonder in Elite that many games of the time just couldn't compete with. The visuals looked incredible, making you feel like you were in the Millennium Falcon, or taking over the bridge of the Enterprise. I'm hoping that the incoming release of Elite. Dangerous will ignite those very same feelings I had 30 years ago.

Enjoy the magazine,





JONATHAN I didn't own a Master System

growing up but i remember playing Shinots round a friend's house once maybe? Expertise

Tacking dirty nepidies and retro spreads **Currently playing:** 

Favourite game of all time: The Secret Of Monkey Island



PAUL DAVIES R Light II bless me away. though I was always she at it. Expertine: Repeatedy banging my head against a brick wall **Currently playing:** Halo: The Master Cruef Colection Favourite game of all time. Grouts & Grosts



DAVID CROOKES It's got to be Some for me. If

was different in the Master System but no worse for it and very much a classic. Expertise

Amutrad, Lynx, adventures, Dury and ParyStation Ibut is that retro? Decate!) **Currently playing:** Physice Of Plansia

Fevourite game of all time: Brower Smora



JASON KELK I'm a shoot-em-up fan, so it has to be R Type really Athough I have a soft spot for Astro-Norther two

Expertine: Indu, hometrew and betroomcoded games. **Currently playing:** 

Histianoid (Atao B-b-6) Favourite game of all time:



£39.99





LOADING

For young players, classic games are brand new. For older players, they bring back memories and make you feel good



 $\oplus$ 

# GAMER GAMING ICON Is Satoru Iwata gaming's greatest icon?

ith the new generation of games hardware now in full swing, we felt it was the perfect time to celebrate some of gaming's biggest icons for an exciting upcoming feature.

GAMER

Help Retro Gamer find the many important individuals who have turned our favourite pastime into one of the world's biggest forms of entertainment, so that we can give them the recognition they deserve in a future issue. Whether you believe it was Shigeru Miyamoto who refreshed the gaming landscape, or that Nolan Bushnell heralded the start of the videogames industry as we know it, we'd love to have your input. As always, the best suggestions will appear in the magazine, so take this opportunity to join in the celebrations and have your say.

You can tell us about your favourite industry veterans on the Retro Gamer forum, our Facebook page, or even via Twitter using #videogameicons We look forward to your suggestions.











# 30 years of: Elite

le celebrate three decades of the groundbreaking space trading series.



Play Expo Gordon Sinclair looks back at this year's impressive gaming event

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The former Bullfrog coder talks about his new project Satellite Reign

Back to the 90s Richard Burton's regular return to the past takes him to November 1997

# REVIVALS

# Reader Revival: Zombi

David Skillins takes a look back at Ubisoft's unofficial film tie-in

Retro Revival: Deflektor Gremlin's beam-bending puzzler stretches Nick's brain

# Retro Revival: Alien Breed

Darran explains why swapping his SNES collection for an Arniga 1200 wasn't all bad

Retro Revival: Ape Escape ever let it be said that we spend

The Making Of

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Rory Milne uncovers the sorcery

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our time monkeying around

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We look back at an uncharacteristic cartoonish rhythm-action release from SNK.

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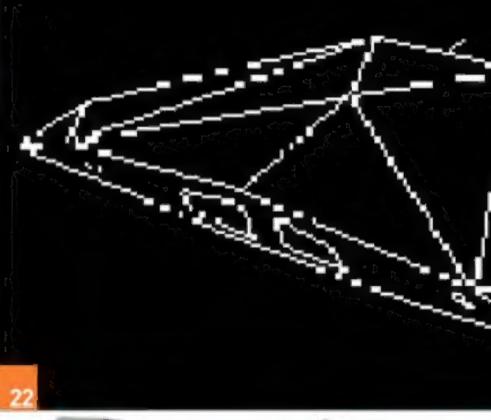
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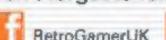
76 35 Years of Microvision Marty Goldberg looks back at this increasingly hard-to-find electronic handheld

84 The Making Of Mad Planets

It might not be as well known as Asteroids, but Mad Planetshas a story that's still worth teiling









# PLAY EXPO - BIGGER BETTER AND BOLDER GORDON SINCLAIR ON THE BIGGEST RETRO EVENT YET

ND WE LIS GIVE YOU THE RETRO WORLD

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A MOMENT WITH MIKE DISKETT The lead designer on Sydicate Wars telts us about his spiritual sequel

### eplay Events' Play Expo returned to Manchester's Event City on 11-12 October and lived up to its promise of

even more in the way of entertainment for attendees. As well as the usual Replay section, chock full of consoles and computers, and the popular vast array of arcade and pinball machines, this year's expo saw the debut of the screen play zone where various exhibits and items from cinema and television were displayed. Highlights of this zone included two shiny Transformers (which sadly remained in car form), a replica DeLorean from Back To The Future and the motorbike and sidecar from the third Indiana Jones movie, The Last Crusade. In addition, there were special appearances from stars of both film and the small screen: Dave Prowse, Jeremy Sulloch and Kenny Baker were flying the flag for Star Wars while that love align duo, Chris Barrie (Arnold Judas Rimmer) and Craig Charles (Dave Lister) from classic sci-fi comedy Red Dwarf gave autographs and posed for photos on their respective days at the expo.

Once more the selection of talks proved varied and entertaining and it.

was pleasing to see all the issues from previous shows ironed out. Perhaps the most interesting to Retro Gamer was the ZX Spectrum vs Commodore 64 debate, hosted by our very own Paul Drury with technical assistance from fellow freelancer Martyn Carroll, Called in to discuss the relative merits of each machine were Jeff Minter and Andy Walker for the Commodore 64 and John Gibson and Ste Pickford for the Spectrum. After a fierce discussion, the vote was put to the audience and an honourable (if slightly dubious) draw was declared. The other talks, including industry legends such as Mel Croucher (Automata), Charles Cecil (Artic. Revolution) and Cinemaware, were also very popular with attendees.

At the end of an inevitably quieter Sunday, Retro Gamer managed to catch up with Replay Events' Gordon Sinclair to ask him about the new elements to the Expo. "Every year the show gets bigger and this year we are also working with new communities such as The Retro Computer Museum," said a remarkably calm Gordon considering the stress and effort that he and the Replay Events team put



The arcade area was price again filled with people and ad a factorize induction of gammin to play.



There was an impressive selection of interviewages, including Charles Cecil and Mel Croucher.



Coupley remains extremely popular, with some superb costumes on show.

### RETRORADAR: PLAY EHPO - BIGGER, BETTER AND BOLDER

# READERS JEIGH IN r did you think

The event was awesome! The retro section was huge: there was a great selection of -8- and 16-bit computers and consoles, arcade and pinball machines, as well as the newer consoles. It was also great to finally meet up with and chat to Chris Barrie and Craig Charles after Special FX working on Series 1 Red Dwarf computer displays, although I was always a big fan of the show anyway." JIM BAGLEY

------

This was my third Play Expo in Manchester: and it has always been really friendly and an opportunity to chat to like-minded people ... and I thought the selection of coin-ops this time around was fantastic LEIGH HILLS

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I thought it was easily their best yet. The retro section was far better set out and it was good to see them expand this rather than let : modern gaming take over the event. Still a few niggles to sort out: the linked PCs were obviously not run by the event, but they need to work with the organisers better as this is ... the second year they failed to get systems up and running until well into the first day.

### MARK AMBROSE, AKA MARKOPOLOMAN

Really enjoyed the amount of computers: and consoles this year. Loved the selection of arcade machines, especially the hydraulic : OutRun and After Burner cabs, Glad they had a working Tranmachine, and that I finally got to

------

## JETSETWILLY

I thought it was one of the best events we. have ever been part of. The social aspect was immense. So many friends both old and new, it was a massive event with the feel of something much smaller." **RETRO COMPUTER MUSEUM'S** ANDREW SPENCER

about all aspects of gaming, we feel the balance is pretty good this year." Even screen.play was not totally detached from gaming, with the expo offering ten individual movie celebrations with key games from the movies on display. However, the Indie Zone, with its eclectic mix of retro-therned modern games, with one of the most popular areas, with the fantastic 2D brawlers Raging Justice and Wulverblade attracting the most attention, the latter walking away with the People's Choice Award for best indie game at the show.

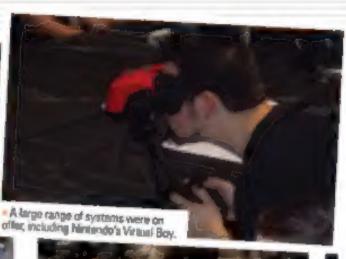
into Play Expo. "And given the show is

The event also saw the conclusion of the Classic Gaming Championships (CGC), the UK's first ever national championship for retro gaming, and one that has been running for the past few months at various locations up and down the UK. "That's the thing I'm most proud of," says Gordon, "as we've had heats as far afield as London, Cardiff and Glasgow with over 1,000 people taking part." All ten heat winners were present at Manchester as they battled it out in a grand final, which was won by Gavin Ward of Rochdale, who was subsequently crowned 2014 Classic Gaming Champion.



Every year the show gets bigger and this year we are also working with new communities 77 Gordon Sinclar







There's always time for a game of Chuckle E

# HIGHLIGHTS >> Our favourite bits from Play Expo 2014





### SCREEN.PLAY

New for 2014, this vibrant roos, two Transformer cars Autobot Bumblebee and onic Del, orean from Back 2 The Future Exhibits on iso have their photo taken or Game Of Thrapes cha

PINBALL CRAZY The vast selection of pinba ables at the Play Expo Nave always been popular with attendents, and this year was to exception. With them all un to freeplay like their rcade counterparts) and, as ar as we could tell, players her credits. The table armous canball manufactures of the same name, was also a they received an equal

The success of this and an overall attendance of 20,000+ people has all but guaranteed that Play Expo will return next year. Says Gordon: "Play Expo is firmly on the events map now and I think a lot of people would be disappointed if it didn't return. We will listen to the feedback we get through social media and try to accommodate as much as we can in terms of improving the experience for everyone." One area that still needed a bit of work was the queues to get into the venue. on the Saturday morning, as Gordon indinits. "There are still things to improve on queueing, and they were bigger than ever this year as it seems everyone wanted to be in as soon as we open! But we feel they were

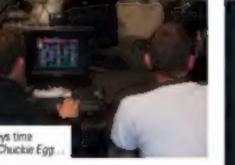
managed better and cleared quicker than in previous years." Overall, despite the presence of a mind-boggling array of games and movie-related merchandise and an everincreasing range of zones, Play Expo was again an enjoyable event, boasting. plenty of gaming action for the current gen (over 100 PS4 consoles), the indies (30+ games from 25 studios) as well as the mass of retro goodness in the Replay section. We finished by asking Gordon what lies ahead for Replay Events. "Play Blackpool is less than six months away, so we're now cracking on with that, and also supporting other events around the country such as Platform Expo, GEEK and EGX. Life is never dull in the events game," 苯







have a go at it!! MIKE WILCOX, AKA





(Binary Design) and John-Gibson (Imagine) representin the Spectrum versus Andy Walker (Taskset) and Jeff Minter (Liamasoft) the CS4, a heated discussion took place about the relative merits of each computer. Incredibly,

number of attendee votes

# news wall



# GAMECITY TO OPEN UK VIDEOGAME MUSEUM

ameCity has announced the opening of the National Videogame Arcade, a project it describes as "the world's first cultural centre for gaming." The Nottingham-based museum, which has attracted funding of £2.5 million, is set to open in March 2015. The group made the announcement at the ninth annual GameCity Festival. Other museums in the UK have included videogames as a key part of their collections and exhibitions, such as the Museum Of Computing in Swindon and the Centre For Computing History in Cambridge, but the National Videogame Arcade is the first to be dedicated solely to videogames.

The launch of the National Videogame Arcade coincides with the tenth anniversary of GameCity, which has been working to promote videogame culture since 2005. The GameCity Festival is its most major achievement, bringing together a programme of events, workshops and exhibitions in Nottingham each year. GameCity learn members were also instrumental in setting up the National Videogame Archive, in conjunction



This building on Nattinghate's Carlton Street is the luture horse of the National Videogame Arcade.

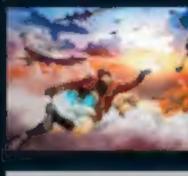


with the Science Museum and Nottingham Trent University. The latter is one of the main organisations funding the National Videogame Arcade, alongside Nottingham City Council, the Nottingham Technology Grant Fund and the Confetti Institute Of Creative Technologies.

The National Videogame Arcade itself is to occupy 33,000 square feet of space across five floors. Four of these are designated as gallery floors to host exhibitions on all aspects of gaming, which will be updated guarterly. This includes a permanent exhibition of items from the National Videogame Archive - an enormous collection of over 12,000 items including unique prototype and development material as well as the hardware and software that made your childhood. The remaining floor is set aside as a permanent educational space, to provide lessons in game development to students of all ages. For more information on the National Videogame Arcade, visit www.gamecity.org.

### ROCKET ANGER EADS TO KICKSTARTER

ollowing the success of Cinemaware's Kickstarter ampaign for Wings: Remastered Edition, the publisher has now announced an update of its popular hit Rocket Ranger that is currently available to back on the crowdfunding service. The campaign for Rocket Ranger: Reloaded is looking good so ar with \$29,665 of its \$89,999 target currently raised. Unlike Wings: Remastered Edition, which was more or less an updated version of the original, Reloaded promises brand new content that ranges from enhancing the story to adding new weapons, items and characters. Visit www. ickstarter.com for more info.



# LUCASARTS CLASSICS **RETURN TO** RETAIL

nline retailer gog.com recently struck a deal with Disney Interactive to add a selection of classic LucasArts titles to its store, ensuring that the classic developer's PC games will continue to be available to owners of modern computers. The major announcement was the return of two much requested Nineties PC titles, the Star

Wars games X-Wing and Tie Fighter, Indiana Jones And The Fate Of Atlantis, Star Wars: Knights Of The Old Republic, Sam & Max Hit The Road and The Secret Of Monkey Island: Special Edition also joined the service, as more obvious choices which will doubtless please fans.





# THE UNTOLD HISTORY OF JAPANESE GAME DEVELOPERS

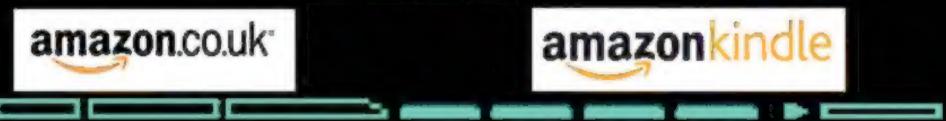
36 interviewees, 526 pages, over a quarter of a million words, with more undocumented information than any other source. Dozens of unreleased games, Konami and Namco and Taito's unreleased home consoles, the sneaky politics behind Enix's early years, the pre-history and founding of Game Arts, plus the unheard secrets of Telenet, Falcom, Quintet, SNK, Sega, Hudson, Namco, Capcom, Mitchell Corporation, Love-de-Lic, and more, straight from those who were there. Features hand-drawn office layouts from these classic developers, plus never before seen archive photographs, all documenting the last 35 years of Japanese gaming history.

"The most important book on video games since Game Over. Retro fans will still discuss this in one hundred years." - Game Preservation Society

"John Szczepaniak is the David Attenborough of Japanese games." - Amazon

"We now have a window into Japanese development and its history, where previously there was only hearsay." - Forbes

Available in print and Kindle format, exclusively on:









# CCULTURE P.D

Here's my bio... Paul Davies In 1997 I stand out on Mean Machine und Christmas 2000, then He'l periodic been running my own company, Helling and Mintendo Magazine System In 1995 | became addor of CAVE | ind the CAVE website from 1998 ralism to be concept design manager at Onterion Games. Treturned to journalism in 2002 and from 2006 Eve

**G**It's human nature to enjoy exactly the same thing over and over again ""

# Joy of repetition



### alo was described by designer Jaime Griesemer as: "30 seconds of fun that happened over and over again." I'm going to suggest that every great game

amounts to the same thing. I also think this is broadly speaking awesome for an honest handful of reasons.

It's human nature to enjoy something, indeed exactly the same thing, over and over again. I'm not smart enough to go deeply into this, and I'd be testing your patience to even try. All I can do is point to music, movies, sport and ... you name it really, and the inications that i nervously exploit. Benefits I gain here repetition thing is right there for all to see.

In football it's the pass and go, in music the familiar phrase. It's said that there only seven basic plots that fuel hundreds of books and movies, for which we'll happily guess the outcomes. And all of this makes me feel so much less guilty about sinking so many hours into Pac-Man, Chuckie Egg, Defender, Robotron ... and on and on. You know, grinding in loot games is absolutely nothing new. I've been grinding gaming scenarios since the very early days. Admittedly I was

doing so for nothing other than personal satisfaction and equally nothing to show.

Currently I am repeatedly playing through the same missions, strikes and raid of Bungle's Destiny that shipped at launch. I don't need to believe anything that's going on in terms of story. I'm just having a blast figuring out then stomping all over the patterns that emerge, just like I used to tackie Galaga and Gorf. The same principles apply to the multiplayer arena, perfecting (as best I can) a route around a handful of are interchangeable with Call Of Duty, Battlefield, Halo and whichever else FPS happens along next.

Doing something over and over is the thing that appears so mindless to, um, "outsiders" - people who just don't game; though as I mentioned last issue, the numbers are rapidly falling. The next level of unacceptable is what could be perceived as addiction. but for actors, musicians or professional sportsmen and women the hunger to perfect an art form is most admirable when it's insatiable.

So, look where we just arrived. By facing up to what's arguably the most unattractive element of the gaming pastime since Pong or Atan VCS Combat, we've found what makes it strong. The repetition is another validation of games as art. Repetition is at the root of the steamrolling League of Legends World Championship, where spontaneity erupts from a foundation of relentless practice routines: hammening out the kinks of the smaller components so that they're not hindering the goals. In the same way, a tournament-level fighter will spend hours rehearsing eg Akira Yuki's Stun Palm to make it available in the split second that it is required. And in that moment the performance can be mind-blowing for an audience appreciative of the hurdles involved.

To me, that comment from Griesemer Inow at Sucker Punch) is priceless as a way of understanding what makes the best games tick. Hopefully you're better at formulating points for discussion than I am, and the joy of repetition regarding games is something fascinating to share around.

# What do you think?

Do you agree with Paul's thoughts? Contact us at:

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12 RETRO GRITER

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Microsoft

XBOX.COM/HALO

# The COL RETRO STUFF THAT WE'VE HAD OUR EYE ON THIS MONTH

# SNK Neo Geo X

Yes, it will never replace the original hardware, but when you consider. the price difference it's hard to complain, particularly with the latest hardware updates. If you're not interested in playing classics such as Metal Slug, Last Resort and King Of Monsters on the handheld, you can link it up to your TV via HDMI for a more authentic experience. Price: £99.99

From: www.funstock.co.uk





### **Retro Gamer Annual**

Christmas is just around the corner, so it's the perfect time to get yourself a massive sice of retro goodness, Our new Retro Gamer annual features some of the greatest content from the last 12 issues. It's filled with a large number of exclusive interviews, covers all number of classic games. from Rampage to Resident Evil, and costs less than a tenner

Price: £9.99 From: www.imagineshop.co.uk

### **Tetris Tetrimino Light**

We ve seen a whole lot of Tetus merchandise over the years, but this stylish light is arguably one of the most impressive. Using the blue Tetrimino as a base, you can then add additional classic shapes to create a unique light display Rumours that part of your lamp disappears once a Tetris is created are greatly exaggerated



Price: £29.99 From: www.amazon.co.uk

### **Retro Gamer Coasters**

Avoid annoying drink rings on your furniture and get a blast of nostalgia at the same time with our awesome coasters. Available in packs of four, these tough durable coasters feature some of the best Retro Gamer covers we've ever produced, making them perfect for your loved ones.

\_\_\_\_\_

### Price: E4.99 From: www.imagineshop.co.uk





### Atari Bag

Despite its spectacular fall from grace, Atari remains one of the most iconic game brands of all time. You can now show your love for the Seventies developer by carrying around this impressive messenger bag. It's not only extremely well made, and pleasing to the touch, but also lets you easily store an Atan 2600 and several games. Perfect for visiting your mates.

Price: £29.99 From: www.funstock.co.uk

# Sega Mega Drive: The Collected Works

support from Sega. The Colocied Works is the perfect

long with delicious rarely seen prototype images of failed projects like the Security R hearthant

While it's somewhat disappointing that key games such as Castle OF lusion: Columns and Super Hang-On are given little to no mention, there's

Price: £35 From:www.readonlymemory.vg



### THE LEGEND OF ZELDA: A LINK TO THE PAST

"It's actually a selection of items relating to my favourite ever game. In my eyes it's the perfect game and plays as good today as it did when

ongoally released." PAID: £100+

### AUTANT NINJA TURTLES ARCADE BOARD

'Our annual family holiday meant hours in the arcade and this was the one I had fondest memories of. This original. arcade board is one of my favourite ever purchases." PAID: £50

# THAT PIECE YOU CAN'T BE WITHOUT

THE SMURFS TRAVEL THE WORLD -SEGA MASTER SYSTEM This was quite a recent addition but one line



COLLECTORS CORNER

### PERFECT DARK

"When growing up, we played the N64 most due to its impressive multiplayer games and with this game, epic battles were easy to create. It's up there with the most important FPS on any console." PAID: £50

### THE LEGEND OF ZELDA: A LINK TO THE PAST SIGNED BY SHIGERU MIYAMOTO

"I bought it off eBay about ten years ago so didn't get to meet Miyamoto like Leigh Isee Collectors Corner RG1347, but it's still a nice item to have."

PAID: £50

-----





NAME: Stephen Bowler

ESTIMATED VALUE: E25,000 

MOST EVER SPENT: £325

FAVOURITE CONSOLE: Nintendo 64

**FAVOURITE GAME:** The Legend Of Zelda: A Link To The Past

# **Collectors** corner eaders take us through the retro keyhole

ast month's profile gave us possibly the most wellin the world. This month we have almost the complete opposite, "This is the first time I've openly talked about and shown off my collection to anyone other than to close friends and family," admits Stephen, who has been collecting "properly" now since 2001, Living up to his RetroCollect forum name of theconsolesollector, Stephen estimates he owns 4,500 games, 150 consoles and over 100 miscellaneous items, and like many collectors he's been bitten by the complete set bug. "The N64 is my favourite console and i game Les Schtroumpfs Autour Du I steadily built up a large collection," he explains, "until one day I stumbled i World') may have raised an eyebrow, across a full game list online and decided to give it a go." He now

owns a complete worldwide set of

games for the console - although, unlike some, he's happy to have carted to games, known videogame collection is only games in his collection given the is Stephen also loves gaming-related price difference between these and boxed games,

> With a collection of this size, storage is obviously an issue. As a married man, what does Stephen's other half think of his hobby? "Fd been collecting a few years before. we met, so she was well aware what she was getting into!" he laughs. "Now we just have a normal-sized semi-detached house so I have to ensure the space is used well." And while his recent £325 i purchase of the rare Master System Monde (The Smurfs Travel The retro collecting and marriage have so far co-habited well in the Bowler household.

In addition

### MARIO KART WEDDING CAKE

"Okay it's not a game and it's certainly not sitting in my games room, having been eaten four years agoi I scribbled down a design to give to the local bakery and bought some small

toys to put on it." PAID: E60

merchandise. "Most of it is Nintendo related, and looks great in my room," he says. And perhaps the most memorable piece of 'merchandise' for him is the Mario Kart wedding cake that sat alongside the more traditional one on his big day, "Have a guess which one had the most photos taken of it!" laughs Stephen. But, like Frank Sinatra, Stephen's had a few regrets over his time collecting, "Selling my SNES and Saturn collection when I wanted to upgrade my PC was a big one," he grimaces. "And although I bought back everything eventually, one thing I'll never get back was the Saturn I won on the TV show Live And Kicking in 1997. I've vowed never to sell my collection again!"

# a moment with.

Mike Diskett

 [Xibox 360] Alter Mucky Foot, Mike spent a spell at Rockstar North as a programmar on Grand That Auto The former Bullfrog coder chats about his new game Satellite Reign

### How did you come to the decision to do a spiritual successor to Syndicate Wars?

I had been watching the success of Kickstarter and had been considering one day many years from now using it to fund a remake of Syndicate Wars. without really knowing if it would gamer any interest. About this time EA released the first-person shooter version of Syndicate which resulted in a lot of negativity from old-school Syndicate fans, and the sheer number of posts from old Syndicate fans gave me the confidence to think a Kickstarter might work. Some time later my employer at the time announced they were closing the game studio, giving us all six months" notice. This allowed us to get together our small team and plan out exactly what we would do next. I suggested we Kickstart a Syndicate Wars spiritual successor and the idea was leaped on by the team, all of which are old fans of the original games.

### What are the new twists that old fans of Syndicate Wars can expect to see in Satellite Reign?

There's a ton of differences; a big one is that agents are class based with specific skills and abilities for use throughout the game. Use of cover/ stealth is a big feature of Satellite



The Inveders From Space is a very real game.

Reign with constantly monitoring. CCTV cameras, as well as hacking to unlock doors and deactivate cameras (among other things).

### What's been the hardest part of making Satellite Reign so far?

It's probably keeping our ambitions. in check - we have a limited amount of funds to see us through and a relatively small team, but a ton of ideas, wish-list items and backer requests. I'm especially quilty of wanting to put in wish-list features ahead of even core functionality, like when I spent a weekend sneaking zip wires into the game!

(Play Station) Syndicate Ware was Mike's first game as a lead designer, arriving on PlayStation and PC.



How has game development changed since your career began? When I first started I was a 68000 Assembly head, writing hardcore sprite/polygon routines direct to the metal on the Atari ST and Amiga, but even by the time I joined Bullfrog programming had become higher level with everyone working in C. Now I'm working in C#, a super-high-level language that allows me to be superproductive, using Unity middleware, which means I haven't had to spend six or more months creating a map editor and render engine.

The AAA games industry is totally different to 20 years ago, with teams

**G**Agents are class based with specific skills and abilities for use throughout the game 77



of hundreds - when I was at Rockstar North working on Grand Theft Auto IV we had a team of 200 developers. compared to just a handful at Bullfrog. Indie development is actually very similar to the early days of game development, though, unconstrained by publisher funding and large team inertia - small indie teams can be ultra-creative, which reminds me of the creativity that existed in the Eighties and Nineties where every idea was new.

### How do you feel Kickstarter has changed things for developers?

Kickstarter is a fantastic way to fund the development of titles that otherwise wouldn't have seen the light of day, but it's not a magic builet. Successfully completing a Kickstarter is a ton of work that requires a lot of planning, and in some ways is similar to launching a game - you live or die by the number of eyes you get on the Kickstarter and the percentage of views to pledges. I don't think Kickstarter has hugely changed the game development scene because the total percentage of games that are funded by Kickstarter is probably a fraction of one per cent, and it's very difficult to get traction there with original game ideas. Having said that, though it's brilliant that games like Mega Man, Elite, Wasteland and Wing Commander are all being revisited.

### Would you like to revisit any of your other old games in the future?

The guys have suggested I remake Mr Wobbly Legs Versus The Invaders From Space (Google it, it really does exist) as a mini-game inside Satellite Reign. Other than that, there's Urban Chaos and Startopia as properties I own from Mucky Foot, but I'd love to keep expanding on Satellite Reign for a while yet before we move onto something else. Mind you, I have okingly suggested we take on The Sims and set it in a bleak cyberpunk luturistic city... 🛪





# THE STORIES, STRATEGIES, HEROES & MACHINES www.historyanswers.co.uk











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taiment of Clay-Fighter feels tired despite some word and wonderful character designs

# **THE LATEST NEWS FROM NOVEMBER 1997**

**NOVEMBER 1997** - Sega dreams of **Dural, Bandicoot 2** crashes in, not so **Croft original for** Tomb Raider 2, Diddy races in, ClayFighter 631/2 gets a frosty reception while Dredd hits the arcades. Richard Burton takes a trip to Resyk ....

C-VO-

30

THE P

R.B

ega was developing a new console codenamed Project Dural, It would be a powerful beast with a GD-ROM drive rather than a cartridge slot. The GD-ROM, or Gigabyte Disc Read Only Memory, was a format developed for Dural as a piracy deterrent. A GD disc also had approximately double the capacity of a CD.

Project Dural was still in the early stages of planning and development but would see its (almost) worldwide release a mere two years later, as the Sega Dreamcast. Japan strangely managed to get the Dreamcast a full year earlier than everyone else.

PlayStation gamers were to be treated to a trio of early Christmas gifts. First up was the sequel to the playable platform game Crash Bandicoot. The original developer, Naughty Dog, was behind the sequel, so fears of a shabby cash-in were unfounded.

Crash Bandicoot 2: Cortex Strikes Back hit the shops early November and immediately impressed, with many lauding it as having given us a significant improvement over the original. It also sold incredibly well.

The evil Dr Cortex pulled the storyline strings with tales of saving the world by obtaining crystals which Crash was duped into locating. What Cortex

failed to mention was that the crystals would form part of his super Cortex. Vortex laser which would brainwash the inhabitants of Earth into serving him.

Crash Bandicoot 2 featured improved graphics and sound, with both executed extremely well. The gameplay was commented on in the gaming press as rather lacking originality, but when it's as honed as stylishly as this, that is forgivable. Crash Bandicoot 2 was platform gaming at its uncomplicated, unassuming best.

For PC and PlayStation gamers there was Core Design's third-person action-adventure game Tomb Raider II. which continued the adventures of

### NOVEMBER WORLD NEWS

4 November saw the premiere of the science-fiction action movie Starship Troopers starring Caspar Van Dien, Denise Richards and Michael Ironside. Join the military, fight a planet of oversized insects and become a citizen of Earth. Would you like to know more?

There was more sci-fi action on 6 November with the fourth Alien movie, Alien: Resurrection. It started Alien stalwart Sigourney Weaver as Ripley, back as an alien/human hybrid they have just six days to stop him.

clone after being killed off in the third movie and, again, taking up the fight against the Xenomorphs.

21 November saw videogamebased movie madness when Mortal Kombat: Annihilation hit cinema screens. An invasion is coming from Outworld, another dimension ruled by evil leader Shao Kahn. A group of martial arts warriors must do their best to stop him merging Outworld and the Earth realms together and

Mortal Kombat: Annihilation was guff of the highest order.

22 November marked the death of Michael Hutchence, lead singer of Australian rock band INXS. The 37-year-old was found dead in a hotel room in Sydney. He had hanged himself with his belt from the door. The coroner reported that depression brought on by the ongoing custody battle between Hutchence, Paula Yates and Bob Geldof had been a contributing factor in his death.

Nintendo 641 The this



### NOVEMBER 1997

### SEGA SATURN

- Resident Evil (Capcom 2 WipEout 2097 (Psygnosis)
- 3 King Of Fighters '95 (SNK)
- 4 Jona Lomu Rugby (Codemasters)
- 5 Alien Trilogy (Acclaim)

- 1 Little Big Adventure 2 (Electronic Arts)
- 2 Dungeos Keeper (Electronic Arts)
- 3 Championship Manager: Double Pack (Eidos)
- 4 Command And Conquer: Red Alert - Counterstrike (Virgin Games)
- 5 Atomic Bomberman (Interplay)

### PLAYSTATION

- 1 V-Raily (Ocean)
- 2 International Soccer Superstar Pro (Konami
- 3 Alien Trilogy: Platinum (Acclaim)
- 4 Worms: Platinum (Ocean)
- 5 Tomb Raider (Eidos)

### MUSIC

- 1 Barbie Girl (Agua)
- 2 Torn (Natalie [mbruglia]
- 3 Perfect Day (Various Artists)
- 4 Candle In The Wind
- (Elton John)
- Tell Him (Barbara Streisand & Celine Dion)

Lara Croft, Gameplay was very similar to the original: complete the levels by solving puzzles, defeating enemies and collecting objects, the overall aim being to recover the Dagger Of Xian, which transforms its owner into a dragon. Lara was also freshly togged and tooled up with a ponytail, new clothing and an arsenal of new weaponry, Tomb Raider II proved a huge hit, eventually shifting an impressive 8 million copies worldwide during its retail life.

Rare Ltd had been developing a Mano Kart-style game for the Nintendo 64. It was now ready. Diddy Kong Racing was modelled on Mario Kart and although criticised in the press for following this line, Rare

would've been daft to deviate too far from a tried and tested, winning formula. However, there were additional features such as the ability

to change your transport from kart to plane or hovercraft to suit particular stages. As it turned out, Diddy Kong Racing was a splendid piece of gaming.

November saw the return of a classic old beat-'em-up for the Nintendo 64 in the form of Interplay & ClayFighter 63% It once again employed the stop-

notion type of animation, with its

[Nintendo 64] Rare 1td on top form again as Diddy Kong oes a Mano Karl with a top-drawer racing game



pre-rendered sprites giving ClayFighter its unique graphical style.

It also continued with the roster of bonkers characters that had been a theme of previous games. There were 12 characters in all with fan favounte Bad Mr Frosty, the fighting snowman, reappearing. Other characters included a cyborg rabbit and a guest appearance by Earthworm Jim. Groovy.

As a fighting game it was merely okay, but the wairdness and humour of the characters won fans over, nullifying the effect of more important factors such as ropey gameplay.

A later version of the game entitled ClayFighter: Sculptor's Cut, was released for the rental market



### THIS MONTH IN... OFFICIAL SEGA SATURN MAGAZINE

Lobotomy Software, the firm behind the Saturn versions of Duke Nukern 3D and Quake, featured in an interview.

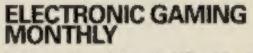
When pushed on which was best, Duke Nukem or Quake, it sat firmly on the fence by saying they're both great but also very different. making it hard to compare. Cop-out!



### NINTENDO POWER

Fresh from a tour of Konami's studio in Japan, Nintendo Powerhad in-depth previews on forthcoming Konami titles including Dracuta 3D (later renamed

Castlevania 64). Hybrid Heaven G.A.S.P. Fighters' NEXTream and Nagano Winter Olympics '98, all of which were being developed for the Nintendo 64.



It was congratulations to US publication EGM on reaching the landmark 100th issue this month. Published by Ziff

Davis, it ran until January 2009, ending on issue 236, EGM Media later bought the title and rt was relaunched in April 2010 under the eterestication of original founder Steve Harris.

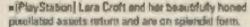




exclusively for Blockbuster and became one of the rarer N64 games. Be prepared to spend £150 plus on bagging a good loose cartridge example and several times that for a complete mint boxed edition.

throw to

The last new coin-op release this month was Rapid River from Namco. As the name suggests, it was a white-water rafting simulator with you controlling your raft by means of a paddle controller situated on the big orange raft cabinet. Although it had a novelty game feel, Rapid River was good fun. Controlling your raft down a frothing river, avoiding protructing rocks, escaping from whirlpools and being chased over waterfalls by a T-Rex. were just some of the joys to be had. Padding futiously as if you were being trailed by a torpedo while your body converted itself into a seething ball of lactic acid and your shoulders were set to explode in your face was enjoyable and painful in equal measure 🛪



In arcade land there were three new releases for you to pump your coin of the realm into. From Acclaim and Gremlin Interactive came Judge Dradd Arcade, based on the anti-hero and lawman of the future from the pages of 2000AD. It originally started out as a completely different themed first-person shooter. After development shenanigans and two further name changes, the game morphed into Judge Dredd Arcade and was released. Sadly, it wasn't worth the wait. It was sluggish and monotonous and thanks to some truly awful FMV cut-scenes, funny for

all the wrong reasons. Rushing Heroes from Konami was something of a ranty inasmuch as it was a sports simulation that played rather well. In this American football game, you got to choose your strategic plays and attempt to beat the CPU player. Graphically it was very good, with large rendered sprites animated realistically on a 3D perspective field. Whether you played offence or defence, you got to determine your play each turn from a selection on screen and, if attacking, your quarterback could select who to







# Zombi H

### UBISOFT ATARIST 1990

Apart from being the first game released by the fledgling French publisher Ubisoft, Zomb/is notable for being from a time where unofficial movie 'tle-ins' weren't considered important enough to take legal action over. Zomb/ is the name by which George Romero's 1978 cinematic gorefest Dawn of the Deed is known in Europe, and the game takes the movie's premise and changes very little.

F

The game begins at the point in the movie where the four main characters arrive by helicopter at a shopping mail. If it isn't obvious from the title, the would is under slege from a zomble plague, and our hernes are seeking refuge. Upon arrival, their goal is to secure the shopping mail and hole up until the dead decide to lie down again.

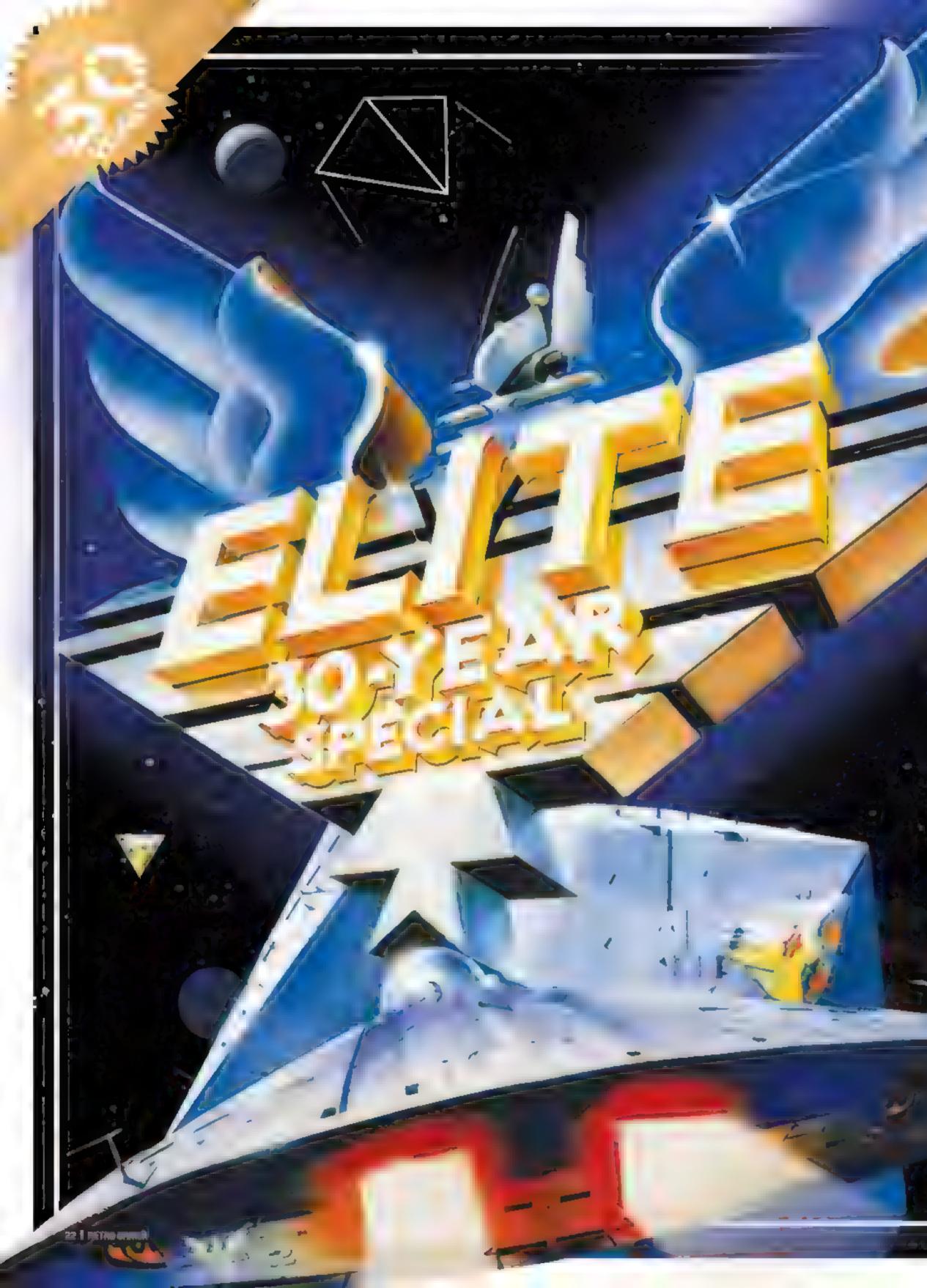
The game is a first person Dungeon Master-style trex through the malt with everything controlled by the mouse Characters may be switched at will but making sure the inactive ones are in a sate place before choosing anothe would be a smart move. There suffice difference between the four protagonists, other than Alexandre is the only one capable of piloting the helicopter, and the tokon female Sylvie can truse a gun for unexplained reasons, pac firsm?

Zembilis fairly straightforward and not terribly deep fans of the movie will progress pretty quickly and it can be completed in about an hour once you know what to do However, this kind of holiror scenario wash tivery common back in 1990 and if was pretty entertaining at the time

Based on some strong reviews for the Spectrum version Zombi was the second game Loo, pht for my shiny new Atar ST. The manual came with a cartoon strip prologue that looked like it was sketched on a hapking Junch not something you disee too often these days. \*

### DOVE SKILLIN





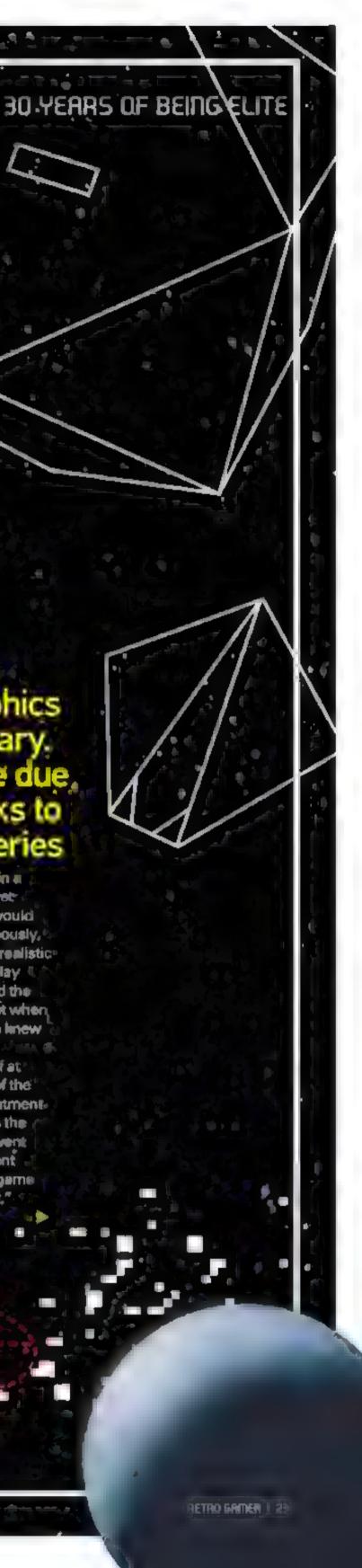
When Elite launched in 1984, its 3D graphics and sandbox gameplay were revolutionary. Now, 3D years on and with a fourth game due for release, co-creator David Braben talks to David Crookes about the impact of the series

There can be very few people who have not heard of the masterpiece of programming that is Elite. Some have compared it to *Citizen Kane*, the Orson Welles film classic of 1941, but while we perhaps wouldn't go that . far, there's no denying the sheer impact of lan Belt and David Braben's game.

With a feeling of isolation that only a bleak universe can bring yet punctuated by the possibility of action, *Elite* could be both lonely and arresting. Flights would be suddenly interrupted by a space war or an opportunity to steal and trade. Different worlds would leed to different possibilities. Players could take basic machinery, food and raw materials from an agricultural world and self it to an industrial one. They could operate on the black market, dealing in slaves, nercotics and firgarms. In 1984, this kind of sophistication in a game was incredibly advanced and yet there was an early chance that *Elit*e would never even see the light of day. Infamously, Thorn EMI turned it down, put off by realistic physics and out-of-this-world gameplay that dispensed with multiple lives and the utual game mechanics of the day. But when Adornsoft got its hands on it, the firm linew it had something special.

From the moment it was shown off at a press launch in Thorpe Park – one of the first games to receive this kind of treatment – Elite caught the imagination of both the geming and non-gaming press and went on to spawn three sequels. "That event oreated so much avangelism for the game and it was clear that people wanted it."

THE RECEIPTING & REPORT OF A DESCRIPTION OF A DESCRIPTION



On 20 September 1964, a true game changer wep d. Its name was Elite and it would go on to influence countlets imes for years to come. Created by university undergraduates ian Bell and David Braben, it presente layers with a vast, open 3D world. Gamers would set off from the planet Lave in a Cobra Mk III spacecraft with little more than 100 credit to their name. On the ourney through the galaxy hey would become a space pirate, making their virtua living through trade, in a game that dispensed with nultiple lives and time lim and simply aimed to abe the player in the experien

### WHY OVERLI

Eith proves that the impossible is possible in 32K of RAM. And it's last too. Bite was also and of the first arries that generated stories based as exceptions you had in the game;

> GRAEME DEVINE. BEVILLOPUR OF THE 77H BURST

### Elite has been a very influential game, but what was it that influenced you? The state of

A lot of different factors came logether at the same time. I read science-fiction books avidly, but the lete Seventies was also the period when sci-fi first started to appear.st. the cinema, with Star Ware being the most obvious one. It had some of the atmosphere that I'd got from, the books whereas TV - the likes of Star Trak-didn't really cut it. TV programmes were a bit too removed somehow and the seme could be said for games at the time. I was more negatively influenced.

# Which games caught your imgination at the time?

When we were writing Elite, we played games like Defender, Galaxian and Pac-Man. But I also liked Philosopher's Quest, What I liked most was the way you saved your position and the user the ... pace of the game was abit more measured. Most of the other games: livet I played were a frantic few minutes and then a frustrating death. and an an and a second se

### Did you want to produce compthin ifferent to these?

Games like Space Inveders of Defender, where you would get en extra emert bomb at 5,000 and an axira life at 10,000, feit so regimented. I thought "what if you,got two amart bombs and no extralife?" I would want to choose. I also thought games were structured toomuch around the coin drop and some many home computer games were lust direct derivatives of arcade games. I wanted to have much more considered games where you could .

1



stop and save your position and

come back the following evening.

Here was the development work

We tried to split the tasks 50/50, but

the way it worked in practice was we

all the time. An awful lot of time was

spent trying to do what we call byte-

savings, which was a surprisingly

rewarding way of trawling through,

thinking "wow, ] can rewrite those "

at this, I can change that, I can do ...

bytes here as well"; #

ten instructions into nine instructions

and save two bytes" or "Lobuid look"

this here, and then we can save two

Site stripped sivey many families

eposts of gaming such as time

Lineaconary for Ellio?

inite and lives. Why did you the belove these mechanics ward

Arguebly Elite does heve

lives: it has one life. But:

it was a slightly bizarra

feeling of "why three?

Why not infinite?". I

love games that mix it

both worked on each other's code .

uplit with op-prostor lan Ball?

up a bit. Before žille, the experience of publishers was very much about making games that work copies of prende gemes and if you look at the ostalogue of gemes immediately prior to *Elite*, there was very little. experimentation. What I think we gid was unlock publishers' willingness to experiment. Publishers had rejected Elite as a wonderful graphics demo and then came to think "we want, some of thet", So it's not that we inspired the developers - I think there were a lot of different experimental gemes that people were probably piready making - but it was more

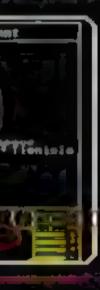
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**34 & RETRO GRITER** 

# ELITE INFLUENCED The impact of Ian Bell and David Braben's game can be seen in a

great many other franchises...







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### **DEVOND THE FRONTLES**

EVE-UNLINE

that we inspired the publishers to go with the developers' ideas. For át real time to three years for one a lot of new gehres come up thet feasiv's and equiladaily provident's town been considered by a publisher. before that.

### Why did you decide to include trading in the gameplay?"-

We brainstormed a few different weys to make you dere about you? whip and we were both afraid that trading would be a bit boring: "What do you mean? You're buying at a

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certain price and selling a: bit higher? Big deel, that doesn't sound exciting; that doesn't sound like a competitor to Space Invadera or to Defender". But we tried it out and thought, actually, it is quite compelling. You care so much more if you've got a cargo of gold that , you're trying to get through if you're actually making a journey, rather, than just trying to survive two-and-ahalf minutes.

Personal and the second second second second second

### This also allowed players to preserve a raio, didn't iz?r :

Once you had the survival, it felt the Score was money essentially and we contextualized all of that in terros all

ana na 2 da marina na fananana mana mana mana mana marina 🗄 kasa ang marina na sa s

WYou care so much more if you've got a cargo of gold you're trying to get through, rather than just trying to survive 50 David Brahan amphasicos the Impertance of Elite's trading aspect

HEELANCE

### DEEP SPACE

anenii. Lotting thing ai apperet and another infast

of bounties so as soon as you had the idea of carrying cargo, all the other roles felt quite natural. "I'm attacking someone because I want their cargo" - so yoy're clearly a pirate. And having a bounty on your heed also seemed logical. Then you could be a bounty-hunter without # actually breaking the law. So the idea of law was added, it came together: quite quickly. 😁

### We there any inastration over the restrictions that the BBC Miero Nacad spain yes? 🕨

k wasn't as bad as that, i had an Acom Atom and I wanted to write "this thing where you flew through an expanding sphere of star field, but I was horrified by how slowly it drew'it in BASIC: you'd see the

**30 YEARS OF BEING ELITE** 

atars appear, undraw them and redraw them and think "ôh, you've lost any persistence of vision". You had no feeling of 3D at all. I sat down to learn machine code and I thought there's got to be a game here because it's so lovely. It was an empty world, but you had such a sensation of motion and of 3D that it, felt compelling and that's why I tried. to work out how to draw 3D shapes. So with Elite, it was a bit back to a front; it was very much driven by the technology, as in that came first and then it was "all right, it needs a spaceship, that would be fun to fly around and fight". And fighting in 3D actually felt great. It felt different. 🛛 🕨

SPACE ROGUE

🔳 Spear Requests in Sile and add

ni-in 30 graphics, realistic physics at

NETRO SAMAN & 26 💪



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If Elite was in the right place

at the right time, the same

Frontier, Work began on the

not be released until 1993.

could not really be said of

game in 1988 but it would

By that time, gaming had

as with the debut game,

Frontier showed great

moved on rapidly. And yet,

ambrings. New ority seems the

3D graphics in colour, it was the first game to feature

procedurally generated staf systems. It also had accurate

physics. Best of all, with no end-game, it could go on

forever. Destiny was truly in the hands of players, with gamers free to be whatever

they wanted, from a miner

to a mercenary to a trader

terminate.

FRONTER Was it very difficult to produce. frontier given the presencertiens of

the first game? A water of I think so, aspecially when people's expectations had got very-high. It's always a difficult belence.

### frontier provided mero of the some n a series. What would you say a were the important things it brought to the table?

for mis, just the sheer scale of he gelaxy and contextualising something real within the game environment was very exciting. And I think in terms of the richness of a the game, Frontier did a lot more in terms of the way the missions worked; in terms of actually having some politics in the galaxy; the idea + that you could be a bad guy in one. place and a good guy in the other place at the same time. I thought that worked quite well in a gametype environment. .::

### The game also any a symbol of light. What shoul out for you, king besi/? ->

I think it was the first game to have curved surfaces and real-sized

planets, it also puehed a sheer number of polygons, Certainly in 1 1968, when I first wrote it, the germin was way ahead of its time, -

in the set of the set

Relative to:Lave)

# Yourwrole Preisteratone, ddwit, you? Wee it difficuê? (pinting)

Yes, the development work was: mostly me and it took nearly five years, which was a little bit couldestroying, especially seeing how quickly and how much the games industry changed from when I 🕧 started to when I finished. Chris Sawyer, over the last period of that, did the conversions to PC., # #

# Fitte bit more boring?

I think Frontier was less. well belanced but what was particularly frustrating for ros was, just before the game was<sup>4</sup> being released in that summer, Konami decided to stop making PC games and it sold its gamesbusiness to a new company called\* GameTek, it had no real testing facilities and I was very unhappy at

### WHY LOVEELITE

When Andrew and I State over differen 1984 we were enthralled. This was way peyond anything we thought technically possible. When we started playing, we tivere sucked into this aniazing world of piloting spaceships, doglights and trafficking inercetics between different solar systems. whilst avoiding pirates and police patrols. He: scope was avecome and totally angrossing, jt was in a league of its own, :

PHILIP OLIVER, sevelapar OF THE DIZZY SEMIES

25 | RETRO GRITER



the transition. I think the game was a THE MANAGEMENT OF

### in what way?

With the first Elite and with Elite: Dengerous we had good time to , get it feeling just right, whereas Frontier: Elite II and, even worse, First Encounters after it, were rushed. I think that was a tragedy because it think I could have got the physics iright but it does take a lot longer than you think. People think you're only setting a few numbers but there's a ( lot of trial and error in, exchanging the way the code works, to get it to have that feel that feels really good

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2011 Autoin tearis are stier at some d integrater, heidig larying and colling corpo. Winy did you depide to inducia

and statpert control?"/ states -

l liked the circular richness and symmetry of it. You could sign up to be an essessin," but you could aleo inacivertently sign up to beassassinated and get an assassin. on your trail. It was often because you did something in the game -Where you crossed someone or you killed someone. The first measage they would give you was, \*) got a message to you from the name of the person in the previous mission, that will teach you to mean with them" or something so it was:

quite clear what it was relating, to. I liked the fact you were just one of many people going about their business. 🥖

### Some of the graphics could be a little jurky and at times it could a make combat difficult. Did the f rebiers suriese as you were nahing the game?

When I was developing the. game I happened to know from Commodore they were planning high-spec machines, so I designed in to be capable of taking advantage of the higher-end machines and yet be reasonable on the lower-end ones.1 I think pert of the problem was a lot of people tended to ramp the detail right up and then complain that it was going slowly. Maybe I should have made it automatically sanse the speed of the mechine but, as it. happened, most of those machines weren't out by the time the game shipped. So even though I had one athome, it would have been a high-risk. strategy to go "all right, what speed CPU is this? I'm going to tweak the game for it", I wasn't certain how the graphics were going to change.

# Frantier had a greater amphasis on missions rather than trading. Were you moving away from that trading at this stage?

Not reality; the trading was very much the same, but what J wanted it to be was more of a range of a things you could do. I had expected Frontier: Elite II to be played by .... tiking on a juicy mission and then

### Classical music assemptoried feeling and combat. Did this har back to your love of spi-li film?

always loved the juxtaposition of classic music and action. Star Wark did it, for example, but I think it was a real tribute to what Stanley Kubrick did in 2007: A Space Odyssey with The Blue Denube and docking. •• People forget the original *Elite* didn't have The Blue Denube: that was added later. If you contextualize the sort of music that was in games at the time of the release of Frontier: Elite II, it was still very plunky plunky Interesting but it didn't work very well with a spece game.

THE S



THE SIMS In in this court-and an ide game, your characters

can get joke, out, since and make interdisely. dia shara is na naat finish aither.

THE ENDLESS LOOP

SPORE m Dather of the state realure, Irlaal, city, caller

> 🖬 Ás long as you can continue to the si in the frame reacting the tay, if it and the second state of th

**30 YEARS OF BEING ELITE** 

### LOVE ELITE Chieves, for me, the deliabive space trading game of the 8-bit and

WHYI

14-bit ergt - it took every years for anyone to come up with anything close. Hopefully Elite Dangerotiticite be the one to steal the crown.

### ROBERT TROUGHTON INCIDENCE OF DESTRUCTION **BERBY AND WIPEOUT**

thinking "I'm going there so what's the right trade good to carry at the same time?". I think it made the jame richer as a result. We could always have deleted the missions or ignored them and then trading would have hed the same importance as the original Elite, but I think gamers' expectations had moved on and if Frontier: Elite II was similar to Elite people would have said it's very dull, •there's not enough to do.

# FIRST ENGOUNTERS

For the first time, Braben's atest game was a true team allair, hat development was beset by problems. From a falling out between David Braben and Ian Bell to pressure from GameTek to release the game early First Encounters was a bug ridden diseppointment for so many fans - and, it would seem. Braben himself compounded by technica issues that were difficul to resolve. And yet the game's fractal landscapes looked stunning, the lack of loading screens made for a wonderful seamless experience and the alienbased missions were a joy.

### WHY LOYEELIT

Eite passed me by first time around because, was Sinclair rather than, BBC. And, for some reason, I didn't, play it when it was porfeel. I feel ideépty schamed,

> CHARLES CECIL CHEATER OF

First Encounters had a development earn of ten. Was it a relief to have more hands on the pump? ..... t was a relief but it also posed massive challenges because I hedn't really run a team before. I think one of the problems that was, very apparent with Elite on the PC [conversion] that Chris Sawyer did, was that it didn't fit very well on the PC. The PC at that point was really a broad range of machines, using 286 and 386 Intel processors and one of the problems was the way. they mapped their memory. The original game that Christ Sawyer,

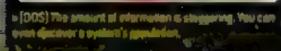
PHICH.

had written used verious pages . of memory, because the PC was designed to have 640K of memory in pages and that was a real pig to use if you wanted the game to get any bigger; to make the screen a higher resolution was very difficult. And...; the problem is the data set [for <? First Encounters] was also so much bigger than the original Elite. Lacts Commission and a second

Did the site cause you problems? With First Encounters we were going to have a much bigger footprint, so we had to re-implement the code 1 and a much flatter memory model

to enable it to go much faster and. enable us to support much higher resolutions and arbitrary resolutions. The game looked brilliant in the high resolutions, or what were high for 4 the time, but we had to make a lot of •changes. GameTek wanted to bring . the release of the game forward and vist we had a lot of problems, the " a most fundamental being that the tools to develop (on) the PC hadn't settled down: you were writing it; essentially as a 32-bit application and that was a real problem for





# WEHAV PEST PROBLEM

Frontier: First Encounter wasn't the only big game with bug issues...

### FAIRLIGHT II: THE TRAIL OF DARKNESS

III The Spectrum Isometric arcade-adventure ad an horrendous lug. Ganvers could only get to the final dealt, which refused to open without, the use of a POKE. The bus had not been fixed - 3 time the publisher decided to relates the gents ig a boto state, very much against the wishes of programiner Bo Jungeborg, y

### THE LEGEND OF ZELDA: OCARINA DE TIME

والمجرز المراحة المرتج وحيير فالأكل

Nestensie dropped a few clangers, in this 1998. N64 game. There are so many, entire websites 1 are dedicated to listing them. One Bug late you, dely gravity; another lats you' lift the man in the anahony gallery, anableg you to see have the artists reglected to draw film a pair of legs. X's even possible to bypass much of the gamp.

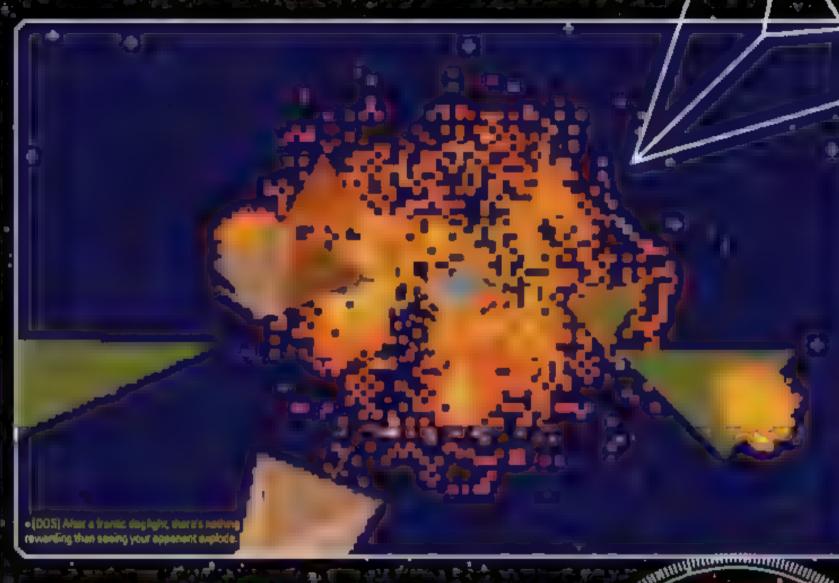
## BUBBLE BOBBLE REVOLUTION

III When this retro classic was given a fresh spirrit 2005 on the Nintendo OS, the American rension came with a terrible bus that omitted the lices at the end of level 30. It pretented players " from programming to level 33, rendering the final. 19 🛞 lavels unphysikle. Contermenter of spologised and incluted Reinbow Islands Revolutioning replacement copies as any persetions,









development, it meant the game didn't get very much attention; sedly,

But the game did have some firsts. That's right, and I think certainly ; from a technology point of view, the way some of the things we ware or doing with modelling the planets when you were a lot further aheadwe's something to be proud of. We had modelled how the atmospheres worked. And if you went to stars

like Vege, they were almost like Smafties: their equatorial radius. was so much bigger than their polar radius because they're 3 rotating so fast. We created a bit of interest in the-geography. We also had detail within the in-game newspapers. You could subscribe to up to five different: papers, each of which was  $\delta$ telling different stories from a different perspective.



With Eldel felt the ave of living my own spaceship through a 3D universe., frammours to planets then enjoying the thrill of contrast, all intervision with the calming pleasure : of shopping. The now-tense now-relaxing emotion/sandwich of fighting and phopping ritmains the watchword in wisely designed. player pajate cleancing.

> MARTIN HOLLIS. Developen of Coldeneyi



\*\*\*\*\*\*\*\*\*\* the set one set of the set of . 🗰 🛛 🗰 . **A**. A #B

### SPACE INVADERS

When Temphre Nishikado created Seace invaties, the eles was that all of the alignet would slav at the same second. But he found that the more enemies that were killed, the laster live remaining aliens would move. Rather than platenat to fix this long - accord by freeing up th resseer - Hishikade left it in and it turned inti a popular feelare, -

# IST CONSTRACT.

POKEMON RED/BLUE

P

AAAAA

A glitched Polemon species tlubbed. eeingNo (shert for missing number) weaked wech the original game. Catching it means the geme tried to access data that just dish't exist and this would allow the reglication of the each item in the player's them boy. But it could also counts the garrie, load to graphical glitches and corrupt the save film.

### JET SET WILLY . II The intervenue Attic Day involved the player

the charas

ates dee Ales

entering a need called The Attic, whentspon the game would carruet, removing enemies from The Chapel and making death trace of others: Programmer Matthew Smiths said the issue was to de with Indian overflow, but Selfware Projects at the time insisted the large were intertional. For a spell anyway. i) later is used a potch.

### The game was also the biggest of the three-yernes up to that point, wesn't it? ......

30 YEARS OF BEING ELITE

it was all the co

Yes. The graphics were improved with shading and texture mapping but we had wanted to go further, which was the reason for 47 rewriting the code, a different code bees, so that we could be an  $\zeta$ lot more embitious...

### Was anything left out?

We had a whole sequence of very interesting linked missions and lthink some hackers have actually kindens at some of the code and same that there's a whole set of mission threads to do with the Thergoids that were closed off. I think that was 'a real shame. But that's what we had to do, because GameTek was absolutely insistent that the game shifted before the end of its financial year. I think bad things would have happened had it not, but that was so much the wrong thing to do and 1 learned so much from it.

### is this why the game was quite buggy then? \*

Oh the game was horrendous. It wasn't reach. The first-release actually had in capital letters across the front 'Beta Release: Not for Public Release' or words to that affect. It was pretty shocking.

### So this was quite apart from anything that was happening

between yourselves and Jan Beil? Yes, it was, although I think that sort of rolled into it at the time. I'd not worked with len for a long time; but he got a percentage off Frontier and not off the later sequels and it caused a problem. We fell out and it's a shame. It's always a shame when that sort of thing happens.

Lange Contractor

• FIGS The graphics wave advanate sugraphic for the

time, analyzing you observe wanted to applease.

ernen anne fanz ernen 🖉 🔜 RETRO SARRIR-1 20 🖉

# DANGEROUS

rs on, the time is sight for a sytum and what



So now Elite is back with Eliter geroue, exectly 30 years on: (ve eaid this game is intrieste ind will take time to learn and rts, is this a geme for the dcore gamer?\*

This is a game again for, dare i say it, me. it's for people like me. A lot of these things (are about) courage. of convictions: what sort of game: would Hike to play and are there other people out there like me? And i don't meen my age. We've shown (it) to people going all the way down to teenagers and all the way up to my at age and older. What we've found is that people want a good game and hey think this is a good game: .»

### Did you get an indication of the profile of players from the lipkstarter campaign?

I think a lot of people following the game were older players or older

people who remembered the game like me. But certainly when we get went to America at GDC and then again for E3, we were seeing more players coming to the game who hedn't heard of either of the originals whereas previously people were saying "I loved Frontier" or "I loved. Elite" or "I loved both". When we were actually getting more players. coming in who dida't know the geme, that was very heartening.

# Elite has always been more popular in the UK and Europe, hasn't it?

Yes. I think the original game got a lot less coverage in the US and they didn't necessarily go well onthe platforms that were available in " the US. The original Elite took guite : a while to move to the Apple II, a which was a key platform in the US, whereas the BBC Micro herdly had = agy (polprint in the US. 🔭

### Why did you decide to go down the erowdlunding route?

I wanted very much to know this: game would work and I think 100 without the huge vote of cohfidence. from the crowdfunding people well wouldn't have been able to do it, " simple as that, I'd get lots of emails: prior to the crowdfunding, saying, "you must do a new Elite" and all





### WHYI **LOVE ELITE**

Pursuit of 'Elite' status meant happilyblasting snyone with the temerity to interfere when jump-driving towards my latest destination. Pirates, fellow smugglers, Nargovits, coops and civilians – all east retiches on the laser cannons. And all in vairs, since despite countiess hours on four platforms i never. persevered keyond 'Deatily'.

> IAN MALCOLM LEAD DESIGNER AT

**30 YEARS OF BEING ELITE** 

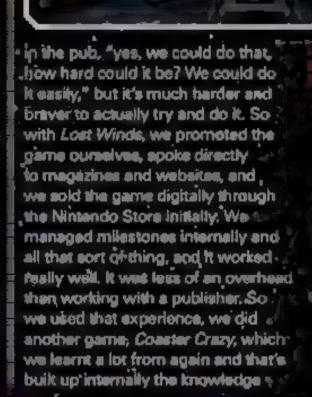
of this sort of thing, and it's difficult to know whether that's 100 on so a very vocal people or whether they're actually representative of a much, much bigger silent majority. (

### You've said that you'd wanted to create this particular game for quite some time, but why didn't you?,

it's an ambitious project, which, means it's quite expensive to make and it needs duite a lot of people. I, think to be able to do that you either need the backing of resources from a peblisher, because one of the 3 problems [is] getting it to market and getting visibility of the game, or your try something like Kickstarter.

### Have you learned a lot in the time between the third Elite instalment. and this gene?

Yes. One of the things that we didquite early on, in 2006, was release a game called Lost Winds, which was , really good for us because it was the first time we'd tested out our own processes. It's all very well to say



LOVE ELITE

Elite was the first game I get really addicted to land IJ Kept playing... into the early hours. I'd get to school the next day, ired land) whenever I shut my eyes i'd see the crosshair and police ships awarming around me, jotting me available

### STE PICKFORD

I think the stars lined up for us in a different way, in the sense that it's now,practical to sell a game the size of Elite: Dangerous online, whereas even back in 2008 i think it . would have been a big asi, for a download of a gigabyte or so, because the network infrastructure: ween't there, whereas now it is. So ( think what's happened is the world fias changed to enable this,

- PROJECT ETERNITY / 73,966 WASTELAND 2 /61,290

15ROKEN AGE | 87,142

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BROKEN SWORD THE SEPTEMBER

. . . .

DYSCOURSE 11.816

HOMESTUCK ADVENTURE GAME 24,346

DIZZY RETURNS 139

AMONG THE SLEEP (1,110)



Numerous games have sought online backers

which means it's quite expensive to make





that we feel we need to go. much bigger.ch

> So tive stars have ined up for you with Elite: Dengerous?

What elements are in Desperous that you wish you'd put in before?

The main thing [is] the fact that you are online - you are playing both with and against other players, other humans – really adds such a lot to it, And I think there are a lot of knockon effects of that, We've seen a lot of YouTube videos of quite amazing operations and people doing things that I hadn't expected, Some of 🕞 the smuggling videos live seen are! excellent, Some of the things that " people have discovered in the game. are also great. It shows such a love for the game and some of the timelapse photography people have been i taking are brilliant. 🇱

# It's an ambitious project,

💼 🚓 Retrogramer 1 31 🗤



ZX SPECTRUM \*\*\* VORTEX SOFTWARE 8 1997

Often, innovative games can look tired as the years go by. If an original game attracts any kind of attention it's usually not long before. imitators emerge and the sequer machine kicks into action inevitably. some of those will improve upon the original and the genre will develop until the original game looks rather plain. If you don't believe us, try playing the original Street Fighter sometime However, some games received little enough elaboration that they became immune to this effect, and Dellektor was one of them

Defiektor is the kind of puzzle game you It try to approach methodically at first as the laser beam needs to take some very complex paths to destroy all the nodes required to clear each stage However the energy bar which serves to imit your time drains guite quickly. and if the overload bar begins to fill because you ve directed you, beam at some spikes or back at its source, you I need to act quickly to prevent vourself from osing a life and starting again. As a result is much more of an autionpuzzler than it would appeal to be Though it was well received by the press and publisher Gremiun Graphics later released the very similar game. Mindbender ciones and copies of Deflector weren 1 common which helps it feel magnificently fresh today in fact. the idea is so good that lots of IOS and Android developers seem to be drawing inspiration from it iso savour that fresh

feeling while you can 🖈



HENRIG GARNER İ 35

Steve Turner was inspired Steve Turner was inspired by Dungeons & Dragons by Dungeons by





· ZX Spectrum Booth H Drix Symbols called glyphs give your somether access to various maigh when occursed.



e earliest memories Steve Turner has of Ranarama's development relate to the three games that influenced his fille's design and Graftgold setting

into a new workplace. At the time Andrew Braybrook, and I had moved into a little office on the back of my house. There was just room for our two desks and leather executive chairs. At first was playing around with the look of a Spectrum version of Paradroid The idea from the start was to porrow the gamepiay and put in a different scenario I thought Paradkoid was a really good design land so worth reusing 1 [copied] its bas relet effect [and] decided that scrolling was too limiting on the Spectrum, so

experimented with the flickscreen approach. Andrew and Lused to play Dungeons & Dragons, which seemied a good idea. for the scenario. I fixed the way you drew a map as you explored in D&D and thought would hide rooms in Ranarama) until you had explored them 1 saw Gaur tiet probably just once, soon after started it reinforced the idea had for the scenario suggesting was going in the right direction.

Hawing found inspiration, Steve reduced his game's potential development time by repurposing existing code and investing in hardware We always started by stripping the last game down to a leusable shell and then adding improvements. These wore ideas we had that we hadn't had time. or room to try out. The graphics routines - colours to avoid colour clashes. To -

probably changed the most bought two PCs for Andrew and, if I remember correctly Ranarama was the Fist program. Ewrote using (mine: Luseo a 280 cross assembler from a company called Avocet worked out that f you changed one connection to the /O chip on a Spectrum Centronics printer imerface it became a programmable input/output interface. Liouid tilen use the parallel port on the PC to output hex code to the Spectrum Armeeded was a boot program on the Speccy to

# **661** used to sketch the graphics on a pad of squared paper, then convert them to hex 77

Steve Turner eschewed a graphics editor

download the hex. This system really worked fast and was so much better than typing on a Spectrum "

With coding foundations in place Stevels focus moved to his game's aesthetics with efficient design and implementation of its shadowed" bas relief visuals being a top priority. tended to put graphics in after had coded ange portions of the game. The main look came from the Spectrum's Imits I wanted in contrast to Quaration to get coour on the screen. which had to be imited to character size. blocks. The floors were the only part of the screen with sprites moving over them, so they were drawn with two





PLATFORM: VARIOUS. BENRE: DUNGEON CRAWLE

IN THE

HNOW

> PUBLISHER

DEVELOPER: **GRAFTGOLD** RELEASED: 1987

HE WSON CONSULTANTS

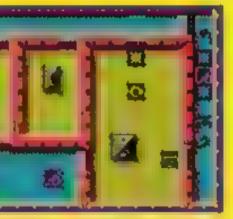
### THE MAHING OF: RANARAMA

make up for this the walls were really brightly coloured used to sketch the graphics on a pad of squared paper in light period, and colour in the squales. then used to convert them to hex got so quick at this ipreferred if to using an editor had a pretty good idea of the look of rooms early on 1 can remember Andrew helping and coming up with the colour schemes and some ideas for the room graphics. The shadow effect was there to enhance the soud wall effect The graphics were all worked

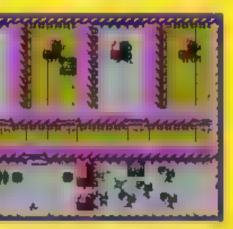
out by an algorithm to save all the time of creating graphics. maps. I put in data defining room sizes and door positions and the Spectrum chose the correct war pieces and floor shadow pieces Then the data could be very small so i could cram the whole game n one load "

n an example of form following function, Steve's graphic design defined his game's hero, which in turn helped him name his project. The main itharacter was going to be a young Lainee withard tried many times to draw him top down but in the resolution and size I wanted just couldn't make him clear enough used to have David Attenborough \$ book Life On Earth and on the cover

was this cute green tree trog - wanted a shape that could be recognised top-down and thed it out. Rana is the Latin for frog in think that came from the same book. Ranarama was a play on Bananarama who were in the charts. a lot knew when writing original



 ZX Spectrums Narrow comidor: we durigions are offen hard to negotiate welfour enormes drawing your power



 XX Spectrums Centain intyphs act as portats between levels, but each reads to a different destination



# AMPHIBIAN

Other notable videogame frogs and toads

### FROGGER

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### COSMIC WARTOAD

🖀 🕭 bis minima Burton Burlans 👘 funnsi: Filetoni's the sinearty بندا <del>العوارة بالإخراجية العر</del> hmen Butler, Sindi wariyimre Jase وراجية ويطعمونها يتثبة وبالموراق ب if alweak (allof also Reducid for sex second genting of collecting, attracked whether



🖬 binne eile linkakereiner stätt irregen نيا شيدى واستوجدت المشبوسية ابترائ int Trop Minlostift and Hab. In Sim hinde direc 2. Madels drug outbl فصهديمالا ليعتنا وتضبيا ليفاشعن فتثلقه وطوجعة اعتد ومتحد الدارد والدديين in the statement thing it was a

### BATTLETOADS

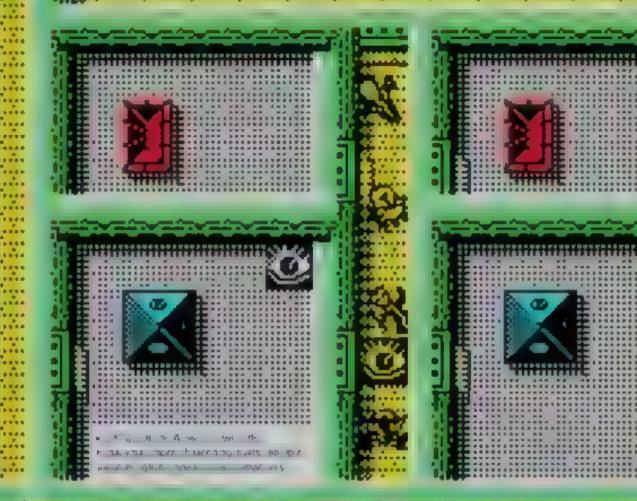
🖶 finnsis antisegenting hit i in stir te ing branding on the HillS stal grace ( wery alter pepular have a poter eering hi the termine S ihnir imt. and a gaptig givenimit inarry: 1.5 or specif Pilewidet trained ine the term and a line in the second

### SUPERFROG

A monageria al cuip and and print now followed by the visite of lind: The debalance this Texas 201 اجدادي أوالشوي بثقيد تينيا وتعز inder Staaten Stadenberthe Sharer isharan ta markili a thank isaligi i أأدعه براودتها درجيه عياديب بايناقد يشدرا

### SLIPPY TOAD

)، برقو وطلقه باندهما میکمبر د<u>قیمه مم</u>درمور Ampet init Singe Seattletetere d its Star Panascia, proised any proind the brains of the loant. Bourt intender alle site den singe Mathiefe ing a state of the state of the second sector of the second sector of the second sector of the second sector of



tries you needed something.

atchy that people would remember. As Ranarama took shape, Steve teveloped sprawing duripeons and the game's distinctive hidden room. mechanic. "At first, the map designs were a case of that and error to see what worked. I liked the idea of the tooms opening up as you entered as added a sense of ac levement and knowing you had explored. Smaller rooms made it more interesting as it constructed the player experimented with long thin tunnels, small rooms and more open spaces and fried. to give the levels light and shade by varying the style of layout 1 wanted hidden rooms early in the design. The player [needed] to be able to work out where a hidden thing was or it. would get very boring having to look everywhere. The revealing of explored rooms made hidden tooms work All had to do was to eave some unused areas on each ap so the hidden rooms were not too obvious

Gamepiay refinements tollowed, with teve opling to appropriate and expand on Paradroid's grading system and control model and to make Ranarama more accessible than his previous fantasy titles - wanted a more mmediate game. While Avaion and Dragontorc were very popular they

 Amstrad CPC: The Amstrad part was extremely smillar to the Spectrum outing with sightly better audio.

were ont liked by out and-out arcade. players - wanted to appeal to as many players as possible. The beginning of the eight level' (grading) system. was Andrew's system of weapons. and Jamage from Paradroid started off with defence and attack and then applied the same system and settled on a finite number of distinct steps to make it manageable. I wanted something for the payer to collect and this evolved into the spell system. I wanted a progression of the player rather than (them) ust taking over the enemy warlock - some way of taking some of the enemies. powers for a vmited time i thought that would generate upgrade pic) ups when the enemy dies. I then thought it would give extra depth to put in the spell system. The floor glyphs were



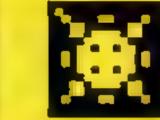
JEVELOPEF HIGHUIGHTS PARADROID INCTURED SYSTEM: C64 YEAR: 1985 QUAZATRON SYSTEM: SPECTRUM YEAR: 1986 URIDIUM SYSTEM: C64 YEAR: 1986

## **6** It was when I came up with the name [Ranarama] that the idea of an anagram hit me 77

Steve explains his inspiration for the subligame concept







# TURNER'S TRIUMPHS More classics from Steve Turner's back catalogue



### DRAGONTORC SYSTEM Spectrum

YEAR 1985 An RPG that plays like an arcade adventure. Stevels massive, and massively complex, sequel to Avalon is more approachable than its predecessor but just as cryplic. Dragoblott s puzzles require committed lateral and abstract thinking, making its completion a serious challenge



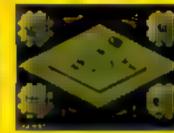
### QUAZATRON

SYSTEM Spectrum YEAR 1986 Stevels clever amalgams of isometric graphics and the underlying gameptay of Andrew Braybrook s masterpiece Paradroid works better than a straight Spectrum port would have Quazatron feets more open-world than Paradroid, but retains its inspirations. brilliant mechanics



### MAGNETRON

SYSTEM: Spectrum, C64 YEAR 1988 This tonow-up to Quazatror boasts several improvements to the established formula, delivering more detailed and colourful graphics, a gameplay tweak involving deactivating reactors and a new grappie system. While superficially similar Magnetron has a quite different feel to Quazatron



### NTENSITY SYSTEM: Spectrum

YEAR 1988 A straight conversion of Andrew Bravbrook's C64 currently Steve and artist John Cumming's adaptation is as faithful as could be Concessions are made to colout and sound, but the Manke colonist-rescuing and alien-exterminating from Andrew's genre-detying original remain infact



### SUPER OFF ROAD

SYSTEM: Spectrum, Amstrad YEAR 1990 Another collaboration with John Cumming, Steves Super Off Road successfully captures the bright colours and frenetic pace of the Leland com-op. Most easily described as an isometric Super Sprintwith nitro-enhanced trucks. the game is best appreciated in multiplayer mode.

 ZX Spectrum: Combat with warlocks involves saiving an avoid and of the sector Reportance against the clinck.



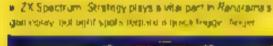
### though Steve had taken Ranarama from concept to completion in just six months, its release would

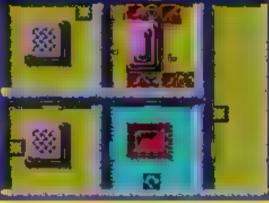
be delayed. "Most of the game justfell into place very quickly apart from the sub game That was the beauty of reusing Paradrow's game design But it] was delayed as Andrew Hewson wanted to release on Amstrad and C64 at the same time. He commissioned an Amstrad version, but the girl doing, it just didn't come up with anything. eventually took (it over and started from scratch +raced to complete it so the release was not delayed any more illid di visit Gary Foreman a couple of times for the C64 version owdnit do any of the programining but documented every game routine to give Gary the best start. I think the delay really damaged sales as many Gauntiet clones -

including an official one - were released before Ranarama. I could have been the first and set the standard. At the time of Ranararna, if I was really hard to make a game that excited magazine, eviewers who were playing around with Amigas. and Ataris

When Ranarama did later appear on the Atar ST Steve - who played no part in its creation - feit it didn't take full advantage of the hardware. "I was disappointed as the game was a code conversion rather than a proper ST version. Originally it had 8 bit graphics from one of the other versions, (but) John Camming at Hewson thought they looked poor and changed some of them. I didn't like the way the animation rate had not been tuned to the faster speed of the Atari ST - so the frog jerked around "

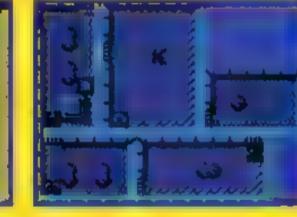






a neat extension of the control model (in, Paradroid When the player is standing on a glyph, the fire button does. something different - glyphs, were just magic versions of Paradroid's terminal and itts. I had always plained on a multilevel map emulating the Paradroid decks (Ranarama's map filled in as you explored so you could work out where there may be a secret passage or room. The enemies were placed by computer - that saved a lot of work. To make. Einteresting, Eplaced the captains and then randomly surrounded them. with troops. That way it was a fractal distribution with quiet spots and hot spots gave them a bit of intelligence. by marking each door the player used and the way he went so the energy could stalk the player

Paradroid's combative sub-game concept would also make it into Ranarama, although Steve dropped an ambitious initial concept in favour of deciphering anagrams against the clock. Another Andrew Braybrook program. Abmon, proved usef a for fine tuning Ranarama's sounds including a croak to signal its hero's failing health



had been playing around with a game. rather like curking, where each wizard rolled magic balls onto a playheid. The trouble was that I never worked out the objective only that you could defend or attack by piscing the balls and they dikind of chain react when they hit one. another wanted it to be quick to keep up the pace of the dame. It was when came up with the name ,Ranarama) that the idea of an anagram hit me. As the name had many letters the same it made it much easier land iso could be very quick. It also reinforced the name. of the game. The sound routine was there from the beginning iso usually. put some praceholder sounds in guite early on These were then tuned up by altering numbers using Aumon) We liked to do things in different ways. the energy bar was a bit of a cliche needed something to alart the player he was in trouble la little sound i didnit mind writing music for the Spectrum as got a good tone out of it by playing two notes simultaneously I used to get fed up if reviews marked my games. down for not having in-game music preferred sound effects



a 28.5 with any undefine ing the last war sick price that



ine the "Wypic







### The mahing of: Ranarama



### VIROCOP

SYSTEM Arniga

YEAR 1995 A spintual successor to Quazatron of sorts - its main character D.A.V.E. is based on KLP2 - Viracapireceived generally positive reviews but suffered disappointing sales This is a shame as Virocop is a challenging and poushed top-down maze shooter with wellconstructed mechanics

Looking back now. Steve expresses satisfaction with Ranarama but surprise at its commuted popularity. "It sione of the tew games where I had no wish to change it attenwards adding any more complication would be detrimental didn't think any of the games would be remembered after a year or two as they had such a short shalf life but am proud of what lachieved given the imitations of the Spectrum " 🗮

Many thanks to Steve Turner for sharing his memories of Ranarama and Graftgold.



• 2X Spertrum Graves Of Iravel icono symbols dispery the levels they allow your sorcerer to traverto.

RETRUGRADER 32

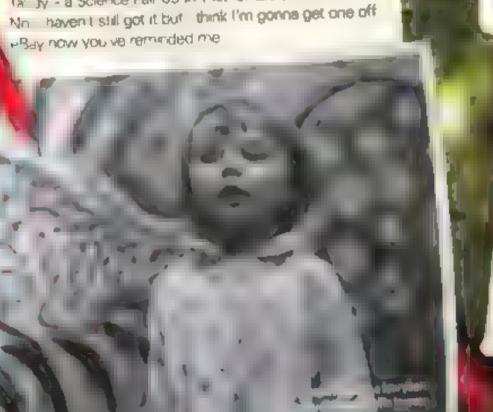
As Christmas trees go up in homes across the land, Paul Drury asks game developers about their most memorable game-related gifts

he createst

Provide the seventies of a Commodors 64 in the Eighties or being ecstatic that somehow your doting parents had managed to track down a copy of Ocanna Of Time for Christmas 1998. The memory of racing downstars on Christmas morning and finding just what you wanted under the tree can last a lifetime, as can the misery of discovering Santa doesn't know you at all and has brought you an Oric instead of the Spectrum you had clearly put on your list. We asked famous game developers for their highs and lows of Christmases past — and some even sent us pholos of their treasured presents.

# Matthew Smith

Anything I got for Christmas was usually the result of hard-nosed negotiation with my parents, but the TRS-80 I got in 1979 was a surprise. I can stall remember the smell of it when I opened the box. The most influential present I ever got was also by Tarlity - a Science Fair 65-in-1 kit for Christmas 1974, No haven't still got it but, think I'm gonna get one off eBak now you ve reminded me





# John Romero

with the .-

والله بليز أو الوب مثل مسملية وبينية بليانية بمانوبالمسوانة ألأ أشمانيا والهنهز.

For Christmas a few years ago, Brenda (my wife) got autographed and framed the original print of artwork by Bill Petras that was used to set the visual style for World Of Warcraft it's the peinting where the dwarf is noing an eagle, and it tells you so much about the spint of the game. It was over our hearth for years and now it's in our office. Absolutely love that game

> Paris intelligent significant Might its are then right

Mick Pe

A Duke Nukern statuette, it is just avvesome - nikist have got it, och Christmas 18337 i don't remember 1998 i think. Of course live still got it it is proudly on display in a cupboard somewhere • After the overance of the 7X8\* Mislouit mode sure on go: Shap with forbid presents

Malcolm Evans (3D MONSTER MAZE, TRASHMAN)

You forget I was Father Christmas merrily eating minde pies and slurping sherry long before home computers came out, though my first ZX81 was indeed a present, it was bought for me by my write on my birthday, in April 1982. Thad been to a careers advice organisation and after many hours of tests I was told, was too old for the software game and I was better off in the rut I was in hardware design. She knew I was keen to get into software, but the ZX81 was still a real surptise.

**SREA** 

Shahid Ahmad

ChiMERA PANDORA I didn t get any Christmas presents coming from a family that didn't celebrate it, but the summer of 1982 feit like Christmas for me. My mum, who didn't have the money really, bought me an Atan 400. It was a profoundly generous act that changed my life. Opening that box was as close to Christmas as L got. The first thing L did was play. Star Raiders, of course.

graphed was used Mark Healey (LITTLE BIG PLANET, DUNGE ON KEEPER)

Christmas 1983 or 184, when I was 12 or 13, I remember unwrapping a C64, and being full of excitement. There was something mumbled in the air about it being for the whole family - yeah, yeah, yeah whatever!, sorry WE also got two games - *Centropods* by Rabbit Software and *Armageddon* by Ocean. I quickly got bored of the games and started devouring the rather thin, meagre user manual that came with it, i used to take it with me everywhere.



a ministra di secondari langina Malay Plan Magin Basardi dan

# Martin Hollis

Knowing that computers were going to be a big deal at Christmas 1981 my parents bought a ZX81 for the family for the princely sum of £69. We plugged it in and switched it on but it didn't work. Mum and dad sent it back. Sinciair replaced it. Second one didn't work either. Same problem. Dead as a brick. So they said, well perhaps we should pay a little more for a computer that actually works? Enter the BBC Micro.



# 

"Once you pop, you can't stop". That's Puzzle Bobble for sure. Or was it Pringles? Martyn Carroll looks back at the long-running series while trying to avoid further snack slogan confusion

itie is ideal. Even hough you're metching colours, it no ouzzie game. There's no time a sit and ponder your next move is you're up against the clock or a

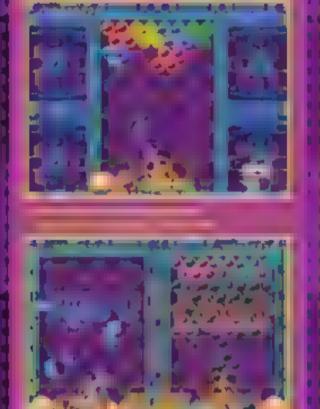
competition. You need to quickly all

your bubble gun and firs shots in

new, phew, phew fashior

Sust-a-Move released in Jaca ind reisaast sisswhere as Bus -Groovill. During production 1 ioame was known as 'Subbia Buater and there's even a title screen bearing that name concealed in the code. It may leck punch but Bubble Buster does a better job of describing the game

"So what is in a name? Not much really. R's still a fentactic game regardless of its imperfect titles. T onfuse metters, the Puzzle Bobble ame has been used outside o



nte for how quickly you te screen and bonusi the were awarded for 'dropping' bubbles (this was when you) created a chain of bubbles and the popped the anchor point, dausing he attached bubbles to fail out of siry). Points were cloubled for each bubble dropped, so if you were abl o simultaneousiv drog 17 bubbles the meximum) you would instant ore in success of 1.3 million point



it the bottom of the screen. The key o winning was to dr

nubbles would be pinged over pievtield. C pourse, th

# 



nat it was coried to the Ne Geo CD home console with the main addition being a difficulty select feature. More considered versions were released for the FC, 3DO, SNES and Game Ger rrivino severai vears inter). O inese distionne a key testun inissing trom the original we kidressed -- vou could now o



**6** Further games quickly followed and each would merely tweak the winning formula



burnell' against the comous

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the single-player geme wer eo beefed up with a total of 10

h of the acree

SPIN SPIN SUGAR Some more of the sweetest spin-offs in videogame history



### Parodius

Konami earnestly redefined the modern shoot 'em-up with the classic Gradius series, and [] turned it into one of the then sent up the whole thing with the glonously silly Parodius spin-off. And this wash't just a trivial one-off, as the original MSX game was Its own series and superseded with multiple | Its characters would entries for both com-op and console.



### **Final Fight**

Initially developed as a follow-up to the original Oropping well-known Street Fighter, Capcom most memorable – and brutal – scroiling beatfem-ups. The venerable Street Fighter #followed, but Final Fight spawned | leature in future Street Fighter games.



### Kirby's Pinball Land

characters into pinbal games has been a hitand-miss affair. Sonic Spinball was second rate, effectively created a new yet Kirby was propelled I into one of the best pinball i imitations followed. To videogames ever With three brilliant lables, each with boss batties and 'go to' perbail gerne.



### per Mario Kart

Of the many Mario spinoffs, none can louch the majesty of Mano Kart, The original SNES game genre and humerous date there are eight main Mario Kart games, plus a couple of com-op titles, bonus screens, this was a and it's surely the greatest spin-off series ever.



### Donkey Kong Country

Mano was obviously the most famous offshool from the original Donkey Kong com-op, but we can't | It was essentially House overtook the incredible Country series. Race created a series of clever, a lightgun you used a gorgeous platformens for the SNES. The recent | to death. Bonkers but | updates from Retro Studio | oddly fascinating, it has have rubberstamped its CLASSIC BIAIUS,



### Typing Of The Dead

Sega threw caution to the wind when it released this delightfully odd spin-off Of The Dead 2, but instead of popping zombies with keyboard to Gwerty them become a favourite at game gatherings

### 42 | RETRO GRIMER



THERE IS THE CILL C

imula, Puzzi i*obble 3* (1996) le ou bounce bubble off the calling as we in the walls for some rick-shot specials... inite Puzzle Bobble -1997) premiered the ontentious chai naction feature. Chai actions occurred

meplay by adding an unwelcom egree of rendomness. Thenkium I most of the home conversions you could disable the feature! The final game to grace the

Incades was titled Super Puzzici



labble and it introduced giant we players could team up togethe wher then compete against each sther. The come was released in 1999, vet outside of the arcade a lessed since then. act, it's hard to think of a platform

version of the

iame. And ihat's jui he official releases

You figure in the

ountiese copies and



nega-popular socia nobile affairs like lubbie Saferi andi lubbie Witch Seca hen vou gan seel ist now ubiquitious

tav have been quilty of exhausti he basic concept over the years. ut its continued popularity shows that it's a true germinal

istenie wit ti**melees** appe whateve the seme 🏅

We find out how the Game Boy graphic artist tackled the conversions of Puzzle



Bobble 2 and 3

working on these conversions? had done requiar contract work. or Probe Entertainment for severa inversions from arcade dames es and handheids. Puzzie Bobrie 2 conversio vas offered the job. I d wonled

so when Probe starting working with the producer and programmer before so I already had a good working relationship with the team.

What techniques did you use to try to compensate for the Game Boy's monochrome display? We realised right away that we couldn't replicate the bubble colours with just the four greyscale values. available on the Game Boy, even with differing, mixing Since the player has to identify adjacent bubbles quickly. we decided to add symbols to replace the colours. We basically tried to make

each bubble colour as visually distinctive as possible. There was some back and forth on the bubble designs, but we settled on a set fairly early in the development of the second game and sed the same. ones in the third game

### Did you use the original coin-op version of the game as a source?

We were provided with the original arcade game. artwork so was able to derive the Game Boy version from the original graphics. Because I worked remotely, Probe provided me with a videotaped play-through so ! could see how all the animations worked.

Can you recall how long you worked on the game? It was probably two to three months for the graphics. conversion. That would be a fairly typical time frame for a conversion to a handheid system. Since we we e provided with the original art, the task was mainly a technical one lediting down the number of animation frames and scaling colour reducing and cleaning up the remaining artwork

How pleased were you with the finished games? And are you surprised that the series is still going? I was very pleased with the conversions think we succeeded in keeping the gamepiay and feel of the games intact, despite the inevitable compromises in the graphxis i minot surprised that the game continues to be released for new platforms. It s a design classic - simple to pick up, addictive and translates well onto low end hardware as we proved with the Game Boy versions

# TERRY FORD

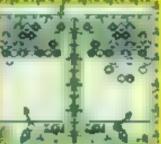
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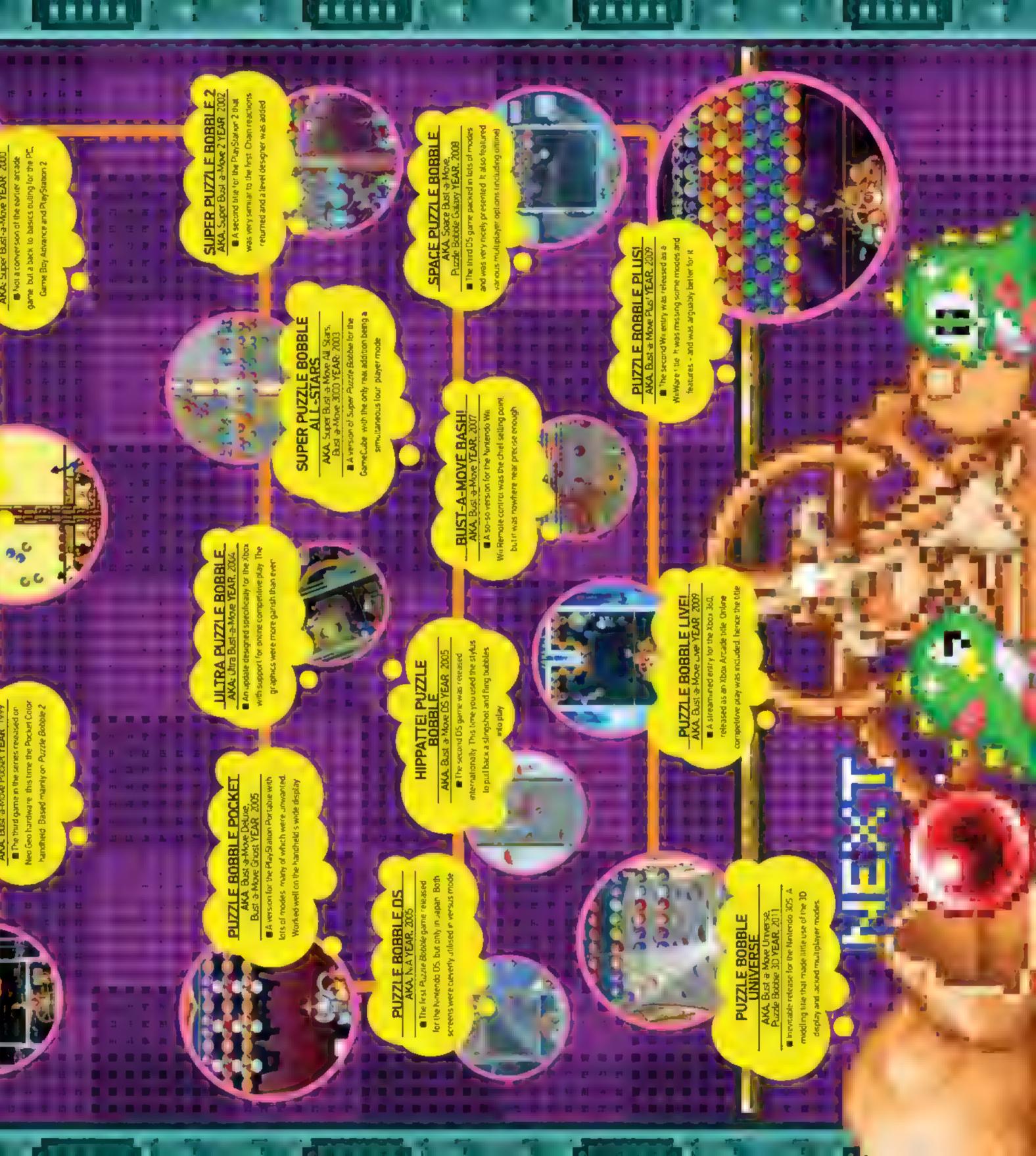
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(interior)

RETRO GAMER 43







### GREAT GAMES THAT NEVER REACHED UH SOIL



EUGLUTION OF THE GENDE

A Preto



RELEASED 1996 Rodney Greenblat's

paper thin, hip-hop loving dog introduced many a gamer to the rhythm-action genre. The action came in the form of a re-stively easy Smonesque game of repetition, but the game was elevated to million-selling bit status by its colourful character designs mitimemorable songs.

### Modern



ELEASED 2012 This game doesn't he songs together

with any story it doesn't have to Hatsune Mixu the character created to promote Vocaloid singing voice synthesizer software, has achieved worldwide popularity Not only has her game received a Western release. she's opened for Lady Gaga. Really

· CO-DROINATES: 36 CODD & 128 DODD E

LCOOL TOON

IF YOU KNOW SNK, YOU KNOW **ITS REPUTATION - IT MAKES** FIGHTING GAMES AND 2D GAMES. JOIN NICK THORPE TO SEE WHAT HAPPENED WHEN SNK STEPPED OUT OF THE COMFORT ZONE WITH A RHYTHM-ACTION GAME ....

> NK was often a conservative company. Having • profited heavily from its arcade fighting games. during the early Nineties, it went on to rely on both those games and the hardware that powered them for far too long. SNK's first

3D arcade board arrived in 1997, four years after Virtual Fighter had popularised polygonal tighting games, and it struggled to keep up with developers that had made the jump sooner. Worse yet, as the popularity of the fighting game genre declined, SNK seemed to only increase its commitment, with only the occasional Matal Slug release. to remind players that it also made other games.

Cool Cool Toon is not a conservative game, however SNK's developers had little experience with 3D games and no experience in the rhythm-action genre, but Cool Cool Toon works extraordinantly well in spite of these obstacles. After choosing a character - a boy named Amp or a girl named Spica - they're dragged into their TV by a cartoon rabbit named Yusa, who implores them to clean up Cool Cool Town. How is that achieved? By Flitzing - the word for dancing in the parlance of this cartoon city. Your chosen character will of course try to explain that they're no good at dancing, but Yusa's TV is broken so you're stuck.

The first thing to strike you is just how good everything looks. Visual designer lopel Gyoubu's vision is done justice, good system, but the difficulty ramps up very quickly with the flat-coloured characters granted the excellent animation they need to really bring their dance routines to Infe – it's as close to a cartoon as the Dreamcast can pull off.

もっと意思いたうが…

Dimensional) Cut scenes edvance the story and show off The second transform matching and

In fact, everything seems to come to life, with background characters bouncing around and ensuring that there's never a dull moment. The simplistic appearance also has some technical benefits - the lack of shading allows the game to maintain an excellent frame rate.

But good looks only carry a game so far and eventually you'll have to dance. During gameplay, the middle of the screen is dominated by a circle in which commands are displayed. The A button symbol appears in the centre, with a white outline closing in on it - when the outline meets the edge of the symbol, you need to press the button. When button symbols appear off-centre, you'll need to move the analogue stick to match the symbol's position as well as hitting the button. Occasionally, multiple non-button symbols appear on the outside, with a wave advancing towards them; for these, just move the stick in the direction indicated. It sounds simple, but the game soon becomes complex. That command circle gets busy, particularly when rapid presses and various buttons are involved, it's a Fortunately, the other key ingredient of a rhythm-action. game is present - the music. As you'd expect from a Japanese music game, the musical genres used centre on

### IMPORT ONLY:





COUNTRY: MAPA?

APITAL: TOKYÖ

RRENCH TIME ZOHE: UT

Dreamcast) Cool Cool Toon's art style even manages to reject colour with graveyard areas



J-pop, with some dips into rock and hip-hop territory. While it's all technically well produced, some of the tunes can be a tad twee, something which seems to come with the cartoon thema. However, this doesn't diminish the impact of the better music and some of the tunes are genuinely among the best we've heard - fromy in particular is a favourite track, which we'd recommend as an underappreciated gem.

While the game isn't tremendously long, there's a lot to do. For a start, Amp and Spica encounter different characters during their stones, resulting in different music for each and revealing the game's use of lertmotif. You can also buy a variety of outfits for Amp and Spica and unlock the various. opponents you encounter during the game, for use in the game's single-track modes - which can be played alone, competitively or co-operatively. The game even allowed for further costumes to be bought online with in-game currency, though the service has long since been discontinued.

For the hardcore, there's even more. The game uses the rare and underutilised Neo Geo Pocket Color link cable to hook up to Cool Cool Jam, a Japan-only release for SNK's handheld, allowing you to exchange the game's currency between the two platforms. Cool Cool Toon includes all kinds of wallpaper



the provinc yollow dog used to be a human

Visual designer Ippei Gyoubu's vision is done justice, with the flat-coloured characters granted the excellent animation they need to really bring their dance routines to life





The Morohans are investing and forcing human hostages to dance iso it's up to news reporter Ukaa to hoht them off Along the way you'll encounter bizarre bosses, rival reporter Pudding and even Michael Jackson The Life employs PaRappa-style listen-and repeat gameplay Both the Dreamcast and PlayStation 2 versions can be picked up cheaply

images and character art for users who insert the disc intotheir PC's drive, as was common for Dreamcast releases, but went one step further with a text file that explained how to use Samba De Amigo's maracas to play the game. Clearly, SNK went all-out with the unconventional thinking here. For fans of music games, this one is wall worth tracking down. There's very little out there that's like it, and there was no sequel. Cool Cool Toon was released after SNK had largely withdrawn from non-Japanese markets and was in a downward spiral towards bankruptcy. That precluded any possibility of a Western release and while the game has occasionally been referenced by SNK Playmore in crossover titles such as Neo Geo Battle Coliseum, it looks unlikely that the company will ever rerelease it for modern platforms. But, as always, there's a twist in the tale - and in true SNK. fashion, it's ever so slightly conservative. The recent mobile game The Rhythm Of Fighters basically lifts Cool Cool Toon's game mechanics wholesale, but places them in a King Of Fighters theme. While there are a few new touch-screen mechanics, the game is remarkably close to the Dreamcast game of 2000. SNK is dead, long live SNK Playmore. Cool Cool Toon is dead, long live The Rhythm Of Fighters.



# AMIGA 1200

The third-generation A1200 was the 'super-Amiga' for the masses, equipped with an upgraded CPU and superior visual capabilities compared to its older cousins. Mike Bevan looks at some of games that tapped into its potential

# SUPER STARDUST

The original Standust was one of the most evenlooked shoot-'em-upu on the Amiga, a fiendish update of Asteroids with stunning raytraced graphics, a thumping technosoundtrack and a steep difficulty curve. Coded by Herri Tikkanen, at Finnish developer Bloodhouse, it did things you just didn't expect a stock Amigs to do, particularly in its hyperspace-tunnel sequences, which evoked Space Harrier and the old 1 Sega Buck Rogers coin-op, but looked \_\_\_\_returned with a new army, this time a hundred times better.



Designed to take advantage of the Amiga 1200's improved AGA chipset, this sequel is basically Standust with everything cranked up 10 11. The game was released on six floppy disks, twice as many as the original, which was an indication of the smount of visual data packed into the title. And unlike Asteroids there was actually a plot ... sort of. The evil Professor Schaumund, inschiy defeated in Standust, has equipped with enough firepower to



# Even today the tunnel sections look stunning, with incredibly smooth graphics

blow up whole star systems. He's also gone and kidnapped the hapless princess Vol Levi. Again. Luckily for a you, you've been given a brand new, supercharged multi-weapon-system fighter with intergalactic hyperapace motors and optional air conditioning. It's down to you, and you alone, to sort out this mess and restore peace. and tranquility to the universe. Oh, and did we mention that the Prof is actually a little blue penguin in a top het? Welcome to Super Stardust...

CLASSIC GAMES YOU'VE NEVER PLAYED

The first thing Stardust players will notice is that the cute Fiftiesstyle cartoon rocket-ship has been replaced by a sleek raptor-like craft. he game's difficulty has also been

knocked down a notch compared to the original, but you'll still need to be a decent pilot because Super-Stardust is definitely no slouch at killing you. The asteroids come in three different variaties: an easily destructible grey type, the slightly tougher purple kind, and extremely hard gold rocks that require serious weaponry to sort out. There are five stages, linked by visually upgraded tunnel sections packed with obstacles and inhabited by an imposing and very mobile guardian. Even today these look stunning, with incredibly smooth graphics that put contemporary titles like the CD-based Microcoam to shame. As you make

your way through the half-dozen. screens making up each level you'll also encounter additional enemies. from fire-spitting UFOs and Predator like cloaking spaceships to cosmic starfish and snake-armed bosses.

Luckity, Super Stardust provides you with plenty of tools to deal with the staggering amount of interstellar shrapnel it shifts about. Destroying weapon-carrying enemies grants you new toys to play with, from bouncing bullets to flamethrowers: and missiles, and there's a Gradiuslike power up system where you 👔 can route upgrades to various bits of kit via an in-game menu, Conserving your weapon power: is the key to auccess in the game, since repeated dying depletes your combat-effectivenese drastically. So stay alive soldier, and go bust some space-rocks in glorious Arniga-vision for us, there's a good chap. And mind that penguin. 1=

IT'S TIME TO TAKE TO THE STARS

This is your X-wing like ship

iciding the investicit denvi

والمتحدث أتعادد والعرا

Leiten abirdie

SHOOT THE CORE UKE A BOSS!

🙂 Maini-Indihan Mar

interest starts

30812

### POWER-UPL

🖬 This sanial prover-se it. increases your weapon's firing peed. The other power-up (bottom right, seet to a reck) activates a meti smart-bomit.

# 



# **MEGA APOCALYPSE**

Mega Apocalypse was the follow-up to: the popular shooter Grazy Comers, which was in turn based on the underrated Gottlieb coin-op-Mad Planets. It's a suitably manic effort, improving onthe graphics of the original and giving us bigger, meaner and distinctly more dangerous astronomical bodies to blast Plus simultaneous two player co-op and an epic Rob Hubbard remot of the first game's already excellent soundtrack.



### **BLASTEROIDS**

ARCADE, VARIOUS The final arcade outing for Atan s famous Asteroidsbrand Biasteroids was designed by Battlezone coder Ed Rotberg. and us level selection mechanic, allowing players to complete stages in any order pre-empts the one seen later in Standust One nilty aspect is the co-op model which allows two players to join their ships into one with even greater firepower. But watch out for Mukor, the game's Sinistar like boss







### SUPER STARDUST HD PLAYSTATION 3

Released as a download for PS3 in 2007 and designed by original coder Harn Tekkanen, this second sequel brought the series up to date in spectacular style If differs from previous instalments in using a Time Print-style control scheme. with a massive planel that rotates below the player's ship as you battle waves of giant multicoloured asteroids, enemy spacecraft and, of course, the occasional space penguin

# ONESCAPEE

With its gorgeous hand-drawn backgrounds and wonderfully fluid character animation, this CD-ROM based title is certainly one of the most visually impressive of all Arniga games. Released towards the end of the machine's commercial life. it's an arcade-adventure with obvious similarities to pioneering titles Another World and Flashback. The story follows the consequences of the alienabduction of the game's protagonist, Daniel White, and his attempts to escape a strange planet on which he finds himself after his kidnappers ship crash-lands. Starting in a curious garbage dumping ground, you'll progress through caves, waterfalls and futuristic cities in your quest to find sanctuary. Presentation is top notch, with an epic opening sequence and fully animated cut-scenes spicing up the puzzle-oriented gameplay, and lots of gruesome and sometimes amusing death-scenes. Luckly, the game allows you to save at any time, and Daniel can later equip a gun to blast

the worryingly numerous droids and alien wildlife. OnEscapee is probably a game best played with a walkthrough at your fingeraps as many of the puzzle solutions can be a bit on the illogical side. If you make it to the finale of the game, you'll be rewarded by a sequence that wraps up the experience in an unexpectedly emotional twist ending

Presentation is top-notch, with an epic opening sequence and fully animated cut-scenes 77

# mone dimerto cuit



### » OVERKIILL

Dverkill is a reimage in a of the com op St. ke Force a sem seque to the classic Detender it s a last paced and very entertaining shooter that sees you traveling through an alien. solar system defending. It e men and biasting bug-eyed or tters which a eit ying to steal valuable crystals. The graphics are simple but effective particularly the explosions which showe extraterrestrial goo aplover. the shop in a most satisfying manner



## » OUT TO LUNCH

Starring the cute Pierre Le Chet. Out To Lucut is a great the platform game in the vein of Bubble Bubble and Rambow islands Like most TV chets. Pierre is off around the world cooking things, which mastly avoides chasing his ingredients around the screen, stuffing them in a big bag and derivering them to a cage somewhere on each level Unio tunately his quest is fraught with culmary per lin the shape of his nemesis Chel Nor



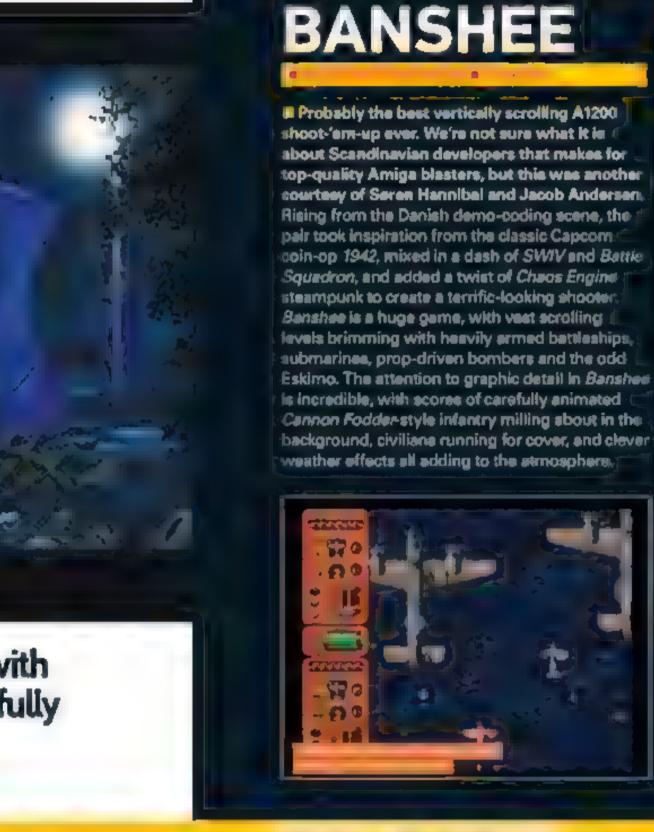
### » EXILE

Starting life on the BBC Micro. Exae was conaboration between programmer Peter Tryin and Jeremy Smith the author of Thrust Taking prace in a vast cave system beneath a mysterious planet it features a remarkably fealle physics engine which is put to pood use as its retpack wearing hero explores his surroundings The A1200 version completely updated the graphics. which look beautiful



### » GLOOM

Coding genius Mark Sibly of Overkill and Bill Basic fame) was responsible for this attempt at a Doom style FPS. And he pretty much hailed it while simultaneously lampooping and paying homage to iDis famous PC the Shamelessly ripping a load of sound effects from the movie Alie is it was surplisingly hippy on a standard A1200 if you fiddled with the screen settings and even better with extra memoly





CJ. 32. 624

Impressive sprite effects include a boss with 1 swinging arms and a giant crane equipped with a wrecking ball, And naturally, there are plenty ( of weapon pick-ups to maximise the carnage, resulting in a deluge of on-acreen firepower, aspecially if you've got a friend to join in the simultaneous two-player mode. An essential title for Amiga 1200-owning shoot-'em-up fans,

A ALL A ALL AND ALL



# » SUPER SKIDMARKS » VIROCOP

While hardly the most original title this top-down racing game is remarkably enjoyable with a few mates a bombing round a huge selection of tracks in Minis dune buggles of even cows! There's even an option to ink two A1200s together and play a simultaneous eight player mode using two monitors placed side by side which is sure y one of the most ambitious multiplayer modes created for any Amiga game



The final Amiga title from Ar drew. Braybrook's Graftguid studio - racop could be described as a hybrid of Paradioid and The Chaos Engine Starring a little yellow robot named DAVE tsees you clearing a rumber of maginative videogamethemad levels of hasty viluses with assorted weapons. A though released for other Am gas, this version features better diaphius and sound and an exclusive medieval tevel. Crusader



# » ALIEN BREED 3D

This 3D update of Team 17 5 pupular franchise was designed to cash in on the mid Nineties craze for all things Doom like Despite the blocky texture work it's surprisingly atmospheric, with pienty of nasty xenomorphs to blast or run away from The game engine is an Improvement on Groom in including proper elevation and stancases, but ish t as fast and really requires an accelerator card to get the best out of



Along with Team 17's Spells Legacy this was one of the few successful attempts to ploduce a Zeida we action RPG for the Amigaand we prefer Legends out of the two. With a lime traveling plot set. across four worlds. North Americal Chinal Egypt and Medieval England. Ls down to you to save each civilisation from a mysterio is alignconspiracy. The main downside is the lack of a proper in game save system.

### **MINORITY REPORT: RMIGA 1200**





### » LEGENDS

# CLASSIC MOMENTS

# Cauldron

RELEASED: MAIL

The real reward of a quest isn't found in reaching your goal - you'll gain far more of worth from the hardships you overcome to get there. Well that s what were fold somethies but were not so sure. There's a certain pleasure to be found in a sure. thing, when success is already assured and all that remains s for you to claim your prize. That sidefinitely the case with Cauldion, which is not an easy gan e by any stretch of the imagination

Once you ve collected all six potion ingredients and have the ability to win the game if stime to make your way to the green door. The Hag appeals in what seems like any other cavern of the underworld and you prepare you self for an arduous that but the pumplith enemy merely bounces. away leading you towards two larger pumps insi- and the golden broomstick. With the potion brewed, you can treat the pumpkins like any other enemy ismashing through them. as you complete the game and take your rightful place as the Witch Oceen 🛣

alle selling addition of the second selling of the second s

### Bio

Released by Palace Softwarein 1985, Cauldron was aninnovative game for the 8-bit micros which cast players : as a witch seeking to brew # potion to defeat the pumplin and become Witch Queen.4 Combining shoot-tem-up and platform gamaplay for a wellrounded arcade adventure, it: teronisme) rejtical acclaire, associes) 87% in Zzap/ and 91% in Crash as well as earning praise from ( a variety of other magazines. However, the pumpkin didn't take defeat lying down and came back with a vengeence in the totally different 1986 sequel Cauldron II: The Pumpkin Strikes Back.

# MORE CLASSIC CAULDRON MOMENTS

### Air raid

The Hag is a tooled up merchant of mag- in death while fiying around, capable of removing the plent full enemies with a single shot But when she lands to pick up a key she's totally defence ess and the airborne enemies don't go away. You I be a wously willing her to move faster as she

### Spirit of Columbus

Aithough it s hard to take it in as you re-inder constant attack Caudron's world's early quite mplessive As you fly through searching for the doloured doorways you see that tis divided into a number of distinct regions. These include a forest a cemetery, an ocean and a vokanik mountain range, each of which is visually distinct and many screens wide

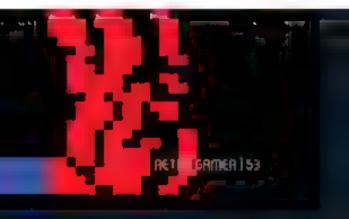
### Dangerous depths

venturing into the caverns of the "ide world for the first time is a daunting experience. The Hag is as defenceless waiking around below ground as she is on the surface and enemies are just as pient 1, as before. The areas are big too ynv be hard-pressed to complete the rounley though them especially as the platform edges are so dangelous

### Give peace a chance

There's an interesting mechanic at work in Caurdron that Magic percentage in your heads up display epresents both your life and your amm in hus It's jule generous as colliding with an enemy only drops it by around 5 m while each shot costs 3/2 However this means that the unspoken third option of simply avoiding enemies is usually the best choice. I possible







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It's often true that we see things differently to folks overseas, but in videogames that's rather more literally true. Join Nick Thorpe for a look at how localisation has shaped our views of gaming classics...



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# SUPER MARIO BROS 2

### NINTENDO 1988

The middle child of the NES Mario trilogy is one of gaming's. most famous localisation stones, in part because it was one of The first to be widely told. The Japanese game known as Super-Mano Bras 2 was not tremendously different from the original game - it featured some minor graphical upgrades and a few new items such as the harmful poison mushrooms, but to the untrained eye it might as well be the original. The major difference was in its difficulty as the game was significantly harder than its predecessor

Nintendo Of America wasn't taken with the game, to say the least. The view there was that the game wasn't accessible enough, Emiliate it would be outdated by the time of release. However, a Super Mano Bros sequel was still an absolutely crucial part of the NES tine-up. The solution was to take an unrelated Famicom Disk. System piatform game called Yume Kojo: Dolu Dok. Panic and transform il into a Mario game

The changes made to create Super Mario Bros 2 were actually relatively minor largely involving the replacement of the original Full TV characters with the Mano cast llongstanding Mano cast members such as Birdo. Bob-Ombs and Shy Guys were all present in the original release anyway. Some minor gameptay attenations were also made, such as The addition of a run button and the replacement of a second Mouser encounter with the new enemy Clawgrip.

Super Mano Bros 2 is an unusual case in that if ended up seeing release in its country of origin, as Super Mano USA in 1992. Western gamers would eventually receive their own version of the Japanese Super Mario Bros 2 as part of the excellent Super Mario All-Stars compilation in 1993, with the new name Super Mario Bros. The Lost Levels Since then, both of the Mario-branded releases have been made available to audiences worldwide via Nintendo's Virtual Console services.

# **UM JAMMER LAMMY**

### NANA ON-SHA 1999

Those of you who played this bizarre semi-sequel to PaRappa The Rapper might. be wondering where the issue is, given that it is a family-friendly game. The problem ues in the plot, specifically for stage six. In the Japanese and European versions, this stage is preceded by a cut-scene in which Lammy receives an axe from a salesman. She heads out onto the street, only to sup on a banana skin and die. She then wakes up to find that she s in Hell and declares that since she's dead, the game must be over A credits sequence begins to roll, but is interrupted by a pumpkin, headed man who declares that Lammy is the guitarist he needs, and brings her on stage at an idol. concert. The idout threatens to kill Lammy for being late, but quickly changes the offer to instead revive her after Lammy points out that she's already dead

In North America, the use of Hell was seen as inappropriate for a family-friendly game. In this version, Lammy instead snags her underwear on a doorknob and is catapulted through the town and off to a tropical island, where the pumpkin-headed man picks up the piot as before (with the exception that Lammy is to be sent home).

### JAPAN

PlayStation) Lannay's Anal dectivation is Hell in the approve and European polostati;

North American version, she singly mags har pank en a decrimeit.





# PROBOTECTOR

### KONAMI 1968

The NES conversion of Konami's classic com-op Contraits one of the system's most fondty remembered games, and also one of its hardest. But in Europe we don't remember it under that name, nor even under the arcade name of Gryzor. Instead we got Probotector, a saniused version of the run-and-gun classic that replaced the player characters Bal Riser and Lance Bean with robots las well as most of the enemies

This is an example of violence being edited out of a full regional release in order to satisfy a ratings board in one nation ~ in this case Germany, which forbade depictions of human-onhuman violence. This set a precedent, and many subsequent Contragames were released under the Probatector name with similar edits made. Koname

eventually started giving Europe games under the Contrainame in the mid-Nineties, with far less fewer and less intrusive edits

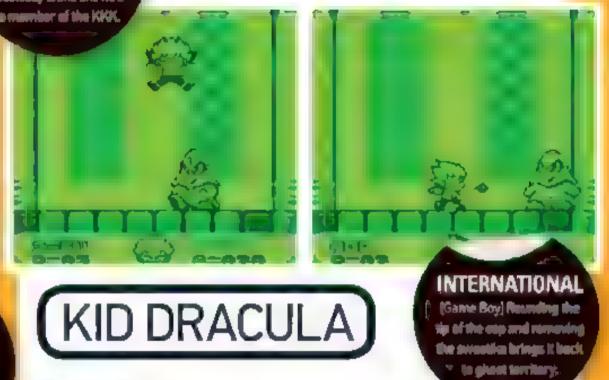


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JAPAN jihan na Bayl Lat's bu hannat, this bang insically looks like he's



### KONAMI 1993

Konami s cutesy Castlevania spin-off seemed a rather unlikely candidate for cultural. sensitivity problems, but it definitely had them. In much of Asia, the swastika is not too much of a cause for concern as it was in use for centuries prior to its adoption by Nazi Germany. In its non-titled form it's a standard part of the Chinese characteriset and the left-facing version is used to denote temptes on Japanese maps. As such, it occasionatly crops up in games where spiritual imagery is used and doesn't cause any bother

Kid Dracula, however, didn't just require editing for that reason - it had to go a bit further. The game employed cartoonish white sheet ghosts as bosses, and in the Japanese version these ghosts bear the swastika symbol. As you might imagine, this brought up some very sensitive issues surrounding American racist groups, and so the sprites were rather hastity edited for export releases.

# STREETS OF RAGE 3

### **SEGA** 1994

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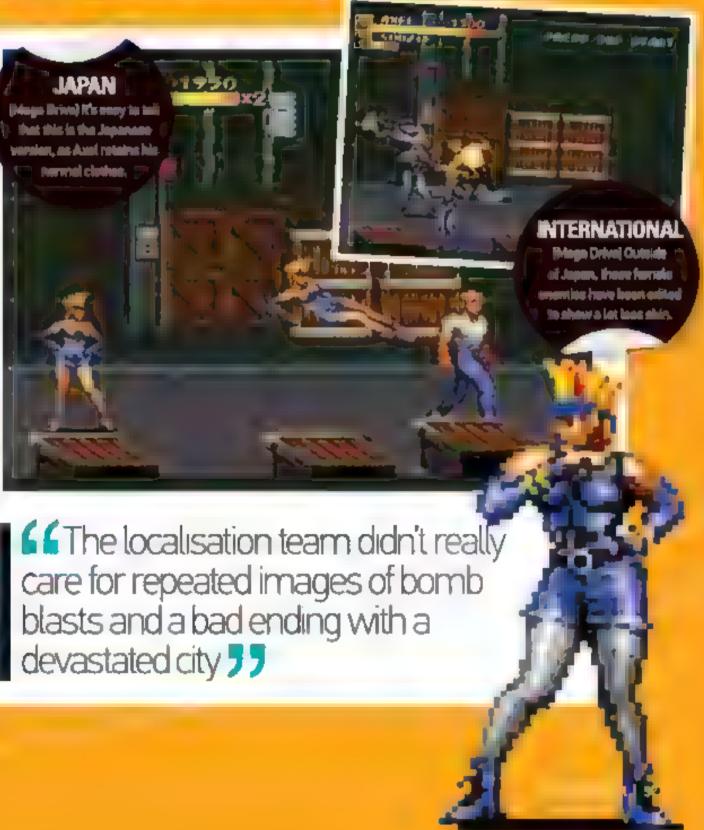
to death,

The most divisive game in Segais beat, em-up series is a strange localisation case. The vast majority of the content in the international releases is unchanged from. the Japanese original (titled Bare Knuckle III) but a wide variety of small changes. makes for two very distinct experiences. The changes are so divisive that an English translation patch for Bare Knuckle fil was actually released by fans, making it one of only a few games to be re-branslated in this manner.

The biggest change to gameptay is that Streets Of Rage 3 is far harder than Bare. Knuckle III, with players given more enemies to beat, tougher bosses and fewer health pick-ups. However, there s also a missing mid-boss in stage one, who goes by the name of Ash. He s basically a rather offensive gay stereotype, complete with outlandish outfit and efferminate mannerisms, so it shot hard to understand why he was removed from international releases. Interestingly, Ash was one of the secretly playable mid-bosses alongside Roo and Shiva - and as that code wash tiremoved From the international releases, you can play as him using a cheat cartindge

Ash's removal wasn't the only alteration made in the name of taste and decency in Streets Of Rage 3, as the female enemies were redrawn to show rather less skin. The main characters also had their clothing altered into new colour schemes, apparently to provide a more gender ineutral appearance.

The other major change made to Streets Of Rage 3 was the plot. The original Japanese story concerned the discovery of a new radioactive element which could be used in nuclear bombs - naturally, series viliain Mr X was most interested in this development and deployed them throughout the game with the inlent of causing all-out war. The localisation team didn't really care for repeated images of bombblasts and a bad ending with a devastated city, so completely reloosed the story as a result. The new plot focused on Mr X's rather less plausible plan to take over the city. by replacing its officials with robotic doubles.





# TABOO TOURISM

Some nations have very specific pet perveiling here's a sample

💿 Des fanges i Risses al i nee Plaster water to the set of the view of martial arts vesponry through a the Eighties and Nineties, and would require It be cut from games it rated. 3D Realms? Shadow Warniorhad to replace shunkens with darts, while Sout Blade's Li Long had his nunchalks reptaced with a here-section stall,

### JAPAN

COLUMN STREET riantion (CENC) has a range of age lassifications, but only the 18+ 2 rating stegally enforceable. Extreme violence likely to earn the unwarned rating, with iven Jepanese-developed games such on Resident Evil 4 and Ninja Gaiden asking the decapitations found in export versions.

### GERMANY

Germony is famounly strict. shout depictions of violence, and has laws for building the display of Mazi ymboliam for alwious historical reasons, While films can receive an exemption onartistic grounds, games currently can't. This ountry only received as first Wolfonstein see a 2012 million and a second second content removed during iocalionian.

# SOUTH KOREA

🛛 🖷 Samurai are very unpopular in : South Korea, thanks to historical conflicts with Japan. As a result, characters and titles vferencing semieral are often removed during ocalisation - Soul Calibur's resident samurai Hitsurugi was replaced with an almost; Cardina S. D. C. Managerines and Carden Arthur, while Samurai Shodown 🖤 viac renormed Fighters Swords.

### USA

E America's Entertainment. Software Roling Board (ESRIE deaunity feave legally binding ratings, but most stores won't carry games with an 18+ Adults Doly rating. Most of the tilles carrying the -AO rating centain graphic sexual centent gernte like Fishrenheit (released in North America as Indias Presbacy) have Burnstein alle Birg

### CHINA

Chine is coherense for its: ada ana ini ka barang ka marang gernes which pertray its arrivy its a gative light or disagree with its territorial claims, Even Feetball Manager 2005 received a ben for its handling of Tibet! The Menetry of Culture's regulations ( are very bread, often inspiring, pre-emplive changes,







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# Alien Breed: 1997 Special Edition 92



AMIGA # TEAM 17 = 1991 Once upon a time I traded in a SNES collection of around 50 Japanese games for an Amiga 1200. It remains one of the biggest mistakes of my gaming life. I'd been entranced by the likes of *The Eye Of The Beholder* and *Indiana Jones And The Fate Of* 

Atlantis, crucially forgetting that two of my favounte types of games, shmups and arcade offerings, weren't well represented on the Anvga systems

Thank goodness then for Team 17's Alian Breed With its impressive visuals and atmospheric soundtrack. It reminded me of all the console and arcade games Lused to enjoy of thy SNES It was a fantastic price to boot. I can remember almost winong in pain when I handed over £70 for an import copy of Super Star Wars, so being able to pick up something as skick as Alien Breed for under a tenner was a fantastic feeling.

Playing it was just as enjoyable an experience thanks to Team 17 channeling the spirit of both Gauntiel and Aliens to create a tense and oppressive biaster particularly when playing with a friend. Yes, the maps could be a pain to havigate and you d often run out of keys before you could access specific areas, but there was something about Team 17's game that atways dragged you back for one more go

Even today there's something immensely satisfying about shooting your way through a sea of xenomorphs, and the metallic Bitmap Brosistyled visuals still hold up incredibly well. The game is admittedly simple in its execution — and eut, shoot aliens, pick up objects — but its quick pace and fun friefights still manage to entertain.

Alven Breedmay have filed heavily off otheligames lia Team 17 trademark i but it proved that Commodore's machine was more than capable of giving the consoles a good run for their money i may have regretted losing that Super Nintendo but the discovery of Team 17's game at least made the experience bittersweet



# Top Laster Suces Games

Retro Gamer readers turned out in droves to vote for their favourite games on Sega's 8-bit console – Nick Thorpe has crunched the numbers and is about to begin the countdown...

# **Operation Wolf**

VEAR: 1990 . GENRE, LIGHTGUN SHOOTER The Master System's Light Phaser perpheral got some excellent support ver the years and Operation Wolf is your favourte lightgun title on the system. The excellent conversion included all of the arcade game's stages. and even allowed players to throw grenades using the second controller. In fact, it was such a good game that it became part of the Master System 1. Plus bundle in Europe replacing previous lightgun pack-in Safari Hunt





### California Games DEVELOPER: SEGA TOAT THE ADDRESS STREET

Despite having a large catalogue of arcade hits to draw on, Sega was keen to bring other big names to the Master System and so became rather active in the licensing market. These efforts ensured that Epyx's excellent mute-sports title found a perfect home on the Master System, with the console's colourful visuals really helping to bring home the sumry California feeling during each of the six events. There s a sequel too, but it doesn't live up to the original

# Bubble Bobble

DEVELOPER: TAITO

FYEAR 1988 I GENRE PLATFORM Tako was one of the few major third idensing their titles to Sega to get around Ninter don restrictive NES developer auteerments. Conversions the Bubble Bobble certainly endcared the company. to the console's owners - the game features a variety of enhancements including new terms and brand new level designs as well as lew ending sequences There's some slowdown and sprite lister, but it sotherwise an incredibly faithful conversion.



CONTROL PAD

### Master Of Darkness VELOPER: SIMA III YEAR: 1012 💷 OCIUL: FL/1970/W

rae that its players had norm manipaged Conti-

Rea alcondine in Adapter Of Dertmose sees, gave

the fast, given its high quality we were pararised that Master Of Derives uses from the deve before the Mean Drive bit it bin. As our he fast that the gerne thatle an appearance on this list at all is a very shond diastor of light how about it.

SEELS MASTER SYSTEM/FORMS Bas

CONTROL PAD



# 6 Well never forget being trapped in a room with possessed waxworks ??

# **Golvellius:** Valley Of Doom

DEVELOPER: COMPULE IN YEAR: 1988 GENRE ACTION-RPG At first glance,

players untamiliar Menning 7 as a simmle whitemining out they dibe wrong to do so Compile's adventure includes a variety of different game modes.

the overworld provides a similar expenence to the aforementioned NES classic, while the dungeons offer traditional platform some and forced scroling vertical battles, both featuring some gigantic and dictailed hater w southess. "Net was after back is (P BILL AND ALBREAD PARAMETER TO A WITH come termine. The carrier was for range When there may an place even by Precedence (Cecil actives (Crimer, 1910) you il be drawn into the adventure. punkis by the promising your news along the way, as their taunts and quips go beyond the purely functional dialogue found in many dames of its eral



PYEAR: 1986 B GENRE, SHOOT 'EM UP The classic rescue-thermed shoot-em-up was one of the first games to make its way to the Master System, and was the most visually impressive of those early releases. It threw around a lot of sprites at very high speed, with some smooth faux-parallax scrolling serving as the icing on the cake Confusingly the Master System version of Chopilitier is actually a conversion of a conversion, it s based on Sega's coin op, itself an enhanced conversion of Braderbund's original computer game. This means it includes the extra environments and scoring mechanics. of the arcade game, adding a bit of extra depth and visual variety over the home computer versions.





# Secret Commando

Genre Shoot Tem UP You might cell it Rambo. First Blood Part II I you re n North America or Ashura if you're in Japan, but the .... European title makes no bones about Segais homege to Commando, Capcom's classic arcade shoot, em-up, Just like in that game, you wander up-screen shooting all manner of infantry grunts. and blowing through and-of-stage fortrasses. It is a bit slower than Commando and features rather chunkler sprites that seem to ape the fican Warnors style, but retains the two-player co-op play that makes these games so much fun, ensuing that you'll keep coming back.

### Asterix DEVELOPER: SEGA D YEAR: 1901 D GENRE: PLATFORM For a sonable which thrived on platform games and in licensed Asterix platformer wat more or less وتصادلا بتبالا وزوان فتضوينك بتهديمة وطالبته id Getelle coptivity in this hour his patient the the first built in na takan mengenakan dia pangan kalangan na si di kana mengerakan ngaran ngalanga di Takan separah sejarah sebagai ngangan mengerakan sebagai ngan separah sebagai ngangan sebagai ngangan sebagai n Takan sebagai ngangai n Abeli () historia interalliti amirto ani petri ل بالي معرية وتشعير بالمنظر المحيث المحيث من المحية في عن المحية والتاريخ. المحيث المحية المحية المحية المحية بالمحية المحية المحية المحية المحية المحية المحية المحية المحية المحية المحي



### TOP 25 MASTER SYSTEM GAMES

# GOLDMAN

POWER

CRYSTAL

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GOLD



IME

### Ninja Gaiden

DEVELOPER: SIMS = YEAR: 1992 = GENRE. PLATFORM When discussing forgotten entries in classic series, the Master System version of Ninja Gaiden demands. mention. Licensed from Tecmo but developed by S MS, then a subsidiary of Segal it s an entirely new adventure. to all the second writing franking of the sear 1. See animeting these is a lowered new wai jump move, which replaces the climbing of previous games. While the visuals and music deserve praise, what makes the game so good is simply the joy of movement. Byu Hayabusa is an incredibly agile chap, who moves guickly and is capable of navigating dangerous environments with ease. You I feel like you have actual nimia skills when you ve spent a while with the game. and along up have good in all the meaner of paralities as a resource.

### a kid when I found out 🗄 murril 🗍 strolyte conversion, just ended up injeging inversions that ninnling & bit games ?? Stelling and the stelling

### **Double Dragon**

DEVELOPER: SEG/ YEAR: 1988 🗎 GENRE: PLATFORM 15 The classic Techner ver to the Master Such is Segal it's an exceller eraion feeturing fei invertances that the NINE receipts look

### The Ninja DEVELOPER: SEG.

weight speaker. The form

### Wonder Boy

OF REAL PRESS Boy release ien't. early as complex as late ntries in the series, but ikateboard as a power-up)

# Alex Kidd In Shinobi World

DEVELOPER: SEGA VEAR: 1960 🛈 ORME: PLATFORM 1 🕥 Originally planna and a panotti pares

## **R-Type**

L DEVELOPHIL; ČÚMPLI 📲 🕂 Type received at

introvicius dvar die ykan with the Mextur Systemic

### Enduro Racer CEVELOPER SEGA SYEAR: 1987 SEGARA CING

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Co Despite the fact that ROM cartridges were unavoidably more expensive than the tapes and disks used for most home computer software. Sega and its distributors were keenly aware that price was a factor for many consumers and offered a range of lower priced games. The budget-oriented Sega Card format didnit last too long, but Mastertronic had success in the UK by offering a range of titles for as little as £9.99 and judging by comments we received it seems that it was the price that persuaded many of you to buy Enduro Racer.

The game itself is a bit of an oddball, as it doesn't really resemble. Segais arcade game of the same name instead playing more or less like an isometric Exciteblike. It stands up to extended play well, thanks to its varied off-road stages and an upgrade system that really makes a difference you'll definitely notice if you're using a better engine or improved suspension. Take note: the Japanese Mark II, version of Enduro Racer utilises a bigger carthoge than the Western release and boasts. additional stages, more valied scenery and improved presentation as a result

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Tracestation destances



- nt designs) all the anomics and any the weapony of the scin-op. Besi ri all, it includes the simultaneous tru

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- YEAR: 1967 IE GENRE: FLATFORM The first Worden that's why we like it – it's 🚛 straightforward dash to the and of each
- stege. This is a rather fine conversion of the coln-op, and we always did like the
- tind Stansis Kist Alass Kie
- crossover star power. The
- woult is a great game which which many platforming to the Shinobi formula and menni (imenibut tij) Alant Kisid, and should
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- YEAR: 1900 W GENRE: SHOOT-EM-UP
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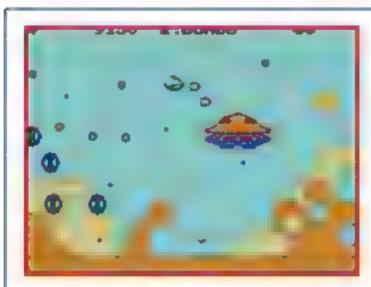
in in the line along the n in hier die plane 🖓 1. 1 6.

At the time of release, it was the best home version around Out Fiun old a great job at emulating the classic com-opti-

### Out Run

The Master System didn't always fare well with conversions of Sega's high-end arcade achines, often strugglind to emulate the sprae-scaling effects that made them so impressive However, the Master System conversion of Out Run is a very playable representation of the classic coin-op. including all 15 courses and the three memorable tunes. of the arcade game.

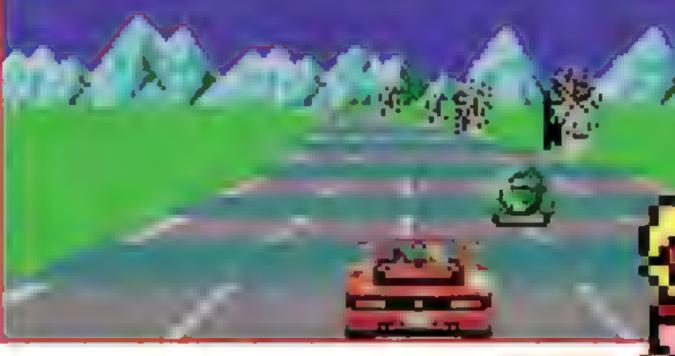
While better conversions of Out Run have come along since the Master System's heyday, this one makes it into your top ten because of the impact it had at the time of release iid was the best home version around. Compared to the largely disappointing home. computer releases, the colourful visuals and smooth movement of the console game seemed just like the real thing, fending credence to Segais clarms of arcadequality games at home.



### Fantasy Zone DEVELOPER SEGA IN YEAR 1986

GENRE SHOOT 'EM JP

O Sega's trippy take on Datender is one of the earliest examples of the cute-iem-up, and U the Master System conversion is excellent While it had to drop the backgrounds in order to get the massive bosses on screen, it s otherwise visually faithful to the original, with bright colours and surreal enemy designs. The audio is also great, with close renditions of the arcade tunes. As for the gameplay, it's a very tight horizontally scrolling biaster which requires you to locate and destroy a senes of bases in order to fight each end-of level boss. Defeated enemies drop coins to spend on power-ups, which you'll definitely need this game is a still challenge despite its cartoonish visuals We lervember being urterly destroyed many many tenes in our youth, but as with any great game, we kept returning for mole punishment.



# Wonder Boy In Monster Land

DEVELOPER SEGA IN VEAR 1988 IN CEMBE PLATEORAL The second arcade Wonder Boy outing was a world away from the simplistic platforming of its predecessor, retaining linear tages but introducing a currency system shops, upgradeable weaponry and armour and even people to converse with. There were piently of secrets to discover too, with health and cash stashed all over the place and even hidden doors to find. The fusion of RPG elements and arcade platforming was a big hit with players, and the change of format would eventually prove to be a permanent one. The Master System conversion kept up with the com-op due to some impressive visuals and the same cross-genre gameplay. It is a fantastic game, and remarkably one which set the stage for even bigger things to come





# **Castle Of Illusion Starring** Mickey Mouse

DEVELOPER: SEGA D YEAR: 1990 B GENRE: PLATFORM

For a time in the early Ninetes, it seemed that picking up a Disney platform game was a guarantee of quality - Capcom turned in some fantastic NES releases, while Sega kept its own crowd happy with the likes of Castle Of Illusion Minnie Mouse has been lodnapped by the evil witch Mizrabel, and it is up to Mickey to gather the seven rainbow-coloured gems and bring her back.

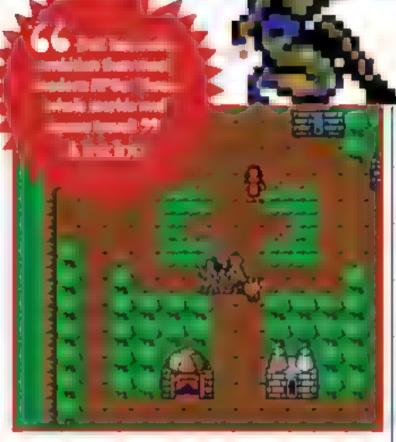
Despite the Master System being targeted at a younger audience following the release of the Mega Drive, the 8-bit version of the game. is noticeably harder than its 16 bit counterpart. That s not for bad reasons either, as the new level designs are tough but fair. It isn't guite as visually lovely as the Mega Drive game, but it ill certainly last you a whole lot longer - and it seems you all appreciated that

inter (Die Bindin be

FULL MATTER STSTEM Power Base

### TOP 25 MASTER SYSTEM GAMES

Speed 2774-



# Phantasy Star

Alis Landale's quest for vengeance against King Lassic is one of the all-time great RPGs, and was highly influential in the development of the genre on consoles. The large 4-megebit cartridge enabled a huge amount of visual variety and a truly epic quest. for the eta, the smooth animation of the first persondungeon scenes was a sight to behold, and the game even let players save via battery backup. However that technology meant Phantasy Star was a proey release which we suspect is why it failed to crack the top five

# Sonic The Hedgehog

DEVELOPER: ANCIENT IN YEAR: 1011 IN GENRE: PLATFORMICI. While Sonic might have been created to promote the new mascat. But with Sonin Town Incompting the full ( powersed 15-bit version, Gege dicht) heve the resources till lavelop it in-house Tenter Anelent, is som teams of founded in tistable gaming musician Yuzo Koshiro. Knowing that all inuight terroration of the Mega Drive platformer would be his time to an instand opted for a loose adaptation! link but a little of the speak and all of the Joops, built iomained feithful to the spirit of the original

in fact, it's even arguable that the Master System recent **if denis (the Hedgehog is ensuity a better game than its**) Hit commerces tenight to missing a few of the flashing history has the game includes completely webuilty stages. with more varied level design/instuding girranisia such as 🛲 justs-acrolling steps; encentively vertical steps and a proper!" inase that had no place in the Maya Drive game, And while inly the title themp and Grows 196 Zone involutionals from [ Asasta Nakamera'a jaonia anundimete, Keshintik new musia 🗌 iif equally high quality

This game ast the term for Scring user Maxim Systems stings, both of which would be sumpletely disconnected rom the Mage Drive releases; it served an interesting due iels, tee lift was the final game for the Mester System is: Nanth America, but in Europe it replaced Alan (Schlith Minnes) Maria as the Master System it's fullt in game, serving til intend the life of the canacia by bringing it thermals division Meater System annual: Nowaway, whether year amportaneed (( 🗃 a eveneong er an introduction, it's hard to deny that flori The Hacigohog is an availant station networks in a source in t inh hinto on dais list

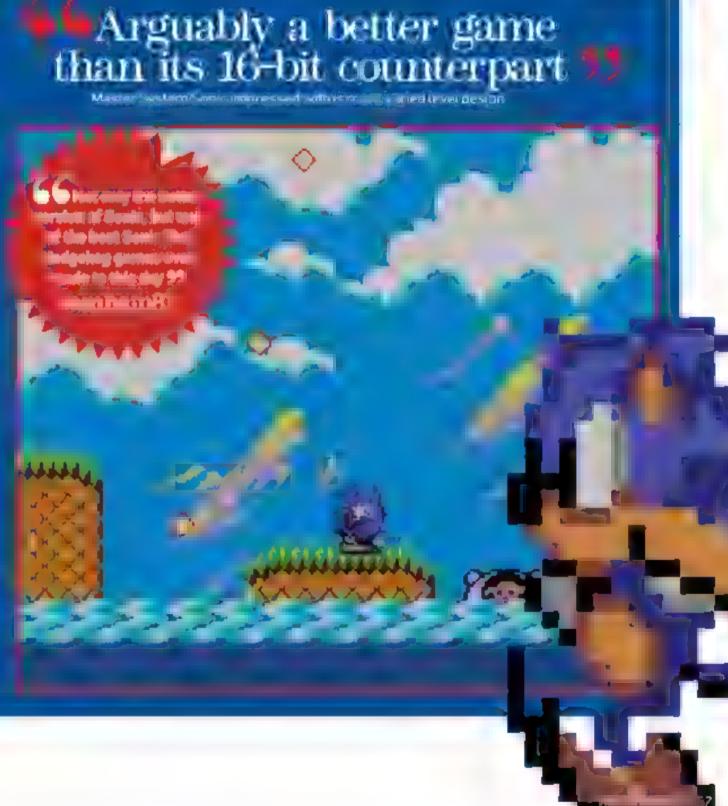
### Shinobi

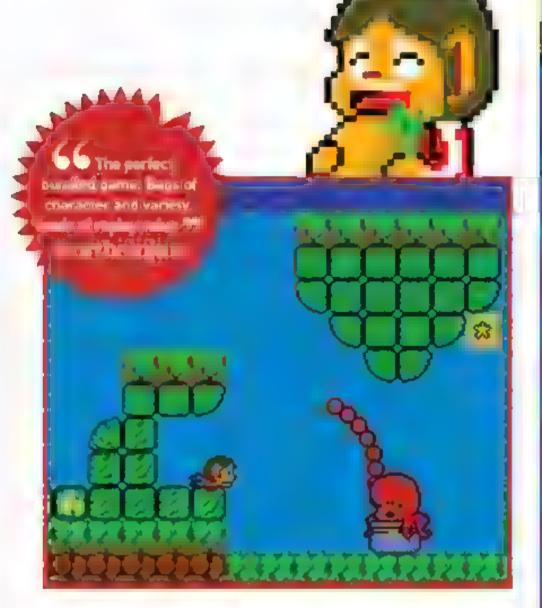
DEVELOPER: SEGA III YEAR: 1988 III GENRE RUN-AND-GUN The first of use Musashi's adventures received an excellent Master System conversion, which included all of the arcade stages and energies. but also provided a number of updates for the home. audience upe could now sustain multiple hits before death and didn't have to rescue all the kidnapped kids. though it was still a good idea - they represented the only way to get new weapons, regain health and access the classic bonus stages. These enhancements heiped Shmobi to become your top Master System arcade conversion, and we can't argue it's ace





DEVELOPER VICTORAL PYEAR: 1989 B GENRE PLATED In the days before Sonic The Hedgehog, tastpaced platformers were rare, but Psycho Fox template of NES platformer Aid Acol, it stars a fox which can transform) into a variety of creatures - a hippo with a powerful punch, a monkey with a high jump and a really speedy tiger. Top-notch stage design and tight controls ensured the game's success and Vic Toka s momentum-based platforming template would later be used for Decap Attack on the Mega Drive



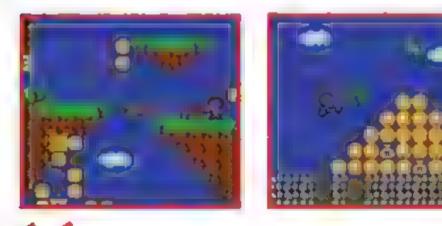


# Alex Kidd In Miracle World

DEVELOPER: SEGA . YEAR: 1985 . GENRE PLATEORM You had to know that if Sonic was high on this ast, his predecessor as Segals mascot washit going to be too fail away Despite having received five games on the Master System, It's Alex Kidd's debut that stands the test of time as the strongest. instalment in the series and one of the strongest games on the console Arex Aidd in Miracle World owes a lot to Nintendo - the game takes inspiration from the incredibly popular Super Mario Bros, with its visual similarities and destructible blocks showing the influence clearly However Alex's choice to punch the blocks instead of headbuilting them is only the start of the differences.

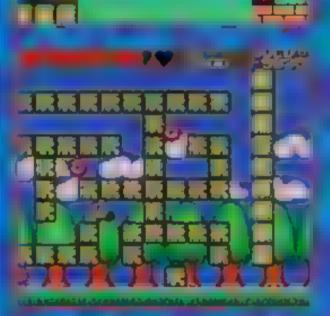
While Nintendo's hit is a fairly simplistic platform game. Sega loaded its release with features that keep the gameplay varied. While Mano's corris existed solely to provide extra lives. Alex can spend the money the collects in shops throughout the game. He can also store, terms to use later on la feature which would eventually be added to Nintendo's series and even ride vehiclos such as a motorbille and a speedboat. The rock-paper scissors boss battles seem like a strange inclusion, but for many they re simply a part of the game's unique charm.

Segais fortunes never benefited from Alex Kidd in the same way as Nintendo's did from Mario, but it's not herd to explain why this dame..... stated at high it your to foil one, built of at the "", permerican, " haven' System II consoles and a great many of the European ones ensuring populant's 'from the act and erenes' was all cell of the in a Topus here consoles are and are spare to view to and they are rewarded with the kind of lengthy, challenging platform adventure that is not commonly surpassed on any format. In fact, on this console only a single game manages to do so.



**6 Loaded** with features for varied gameplay ??

- Picked this up vition | was eight because I thought the cover wea vesome, then never player anything but this fe ill yeart 99 ( Lorfarius







### TOP 25 MASTER SYSTEM GAMES

# Wonder Boy III: The Dragon's Trap

The second second second second he genre is plearly dominent in this top 25, so only a platformer of exceptional quality could possibly rise to the top. Described in a 95% Mean Machines review ies "one of the best gemes of its type available on any consols," it's fair to say that Wonder Boy III: The Dragon's Trap is a platformer of exceptional quality. Beginning in the final level of Wonder Boy in Moneter Land, you get the chance to fight the final boss of that game again - but this time, defeating it reveals a nexty surprise. Our blucky hero is surred upon the dregom's defect, transforming him into a fire-breathing zerd. He secapes the collegeing cestle but now needs to become human again, so a new juest begins, taking him to locations such as a spoolty forest, a dry desert and a fiery cave. That sounds like standard fare for the series but unlike its predecessor, Wander Boy if doeen't contain individual stages, instead, it takes place in a single large world where verything is connected and you're only limited by the obstacles you can overcome. Of course, se a lizard you can't overcome too meny obstacles, but during the journey you'll encounter more dragone and be transformed into new animal forms. The first is all tiny well-scaling mouse, while later ones include a iton with a messive sword awing and an pagie which can fly. All of these forms enable you to visit new areas and access new areas! in old ones, ereating the feeling of a grand adventure where undiscovered secrets could be

inding anywhere.

The Metroid-excue exuctors is certainly great, but it's far from the only thing that makes Monder Boy II so good, The controls are deed-on while the vibrant, detailed visuals are superb and sprite flicker is jept to a minimum, in some places, the game almost reaches the visual quality of early Mega Drive missage. The soundtrack contains a number of isuperbly composed tunes and even supports the FM add-on for improved sound, despite mover having been released in Jepen.

Wander Boy ill would be a great geme on its own, but as a sequel it really acts as a model for others to follow. New players are brought into the action quickly thenies to the geme's inspired introduction, while old fens have a whole new structure and new sbilities to play with, it's telling that Castlevania: Symphony Of The Night, a PlayStation classic considered by meny to be the pinnecis of that series, shares a lot of its design traits with The Dragon's Trap, it just goes to show that while Retro Gamer readers have voted for Monder Soy III: The Dragon's Trap as their levourns Master System game, its designing principles ensure that it would be an exceptional game on any platform.

# Treasons why it's great

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To a great example of the Marster System System strengths, with colourful iyanhini yuki detalla Locisoncontos.

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he grizzled ex-gunsknger Caleb, head of the The Cabal and one of four 'Chosen', kneels before his god, the evil Tchernobog, not knowing why he and the others have been summoned With a dark voice aced with turing razor brades imercaning unters as dissatisfaction. They have termal the forgotten god and must pay the ultimate price With a short, brutai, clench of its fist, Tchemobog sucks the life from them Caleb his lover Ophelia Gabriel and ishmael are dead. Thus inexplicably

the Cabai leader is no more. Until Development on Blood can be traced back to as early as 1993 although its origins are somewhat muddled. Or rather blood-stained "Speculation about how Blood came about has been amusing to those of us who lived It " says Nick Newhard creative lead and main designer on the game. " approached Scott Miller and George Broussard of Apogee with the idea of forming a game development team in There were a lot of negotiations and the end result was that our team (Q)

slam by the very god he worshipped.

While the most famous Build game remains Duke Nukem's popular third outing, Ken Silverman's '2.5D' engine also produced several other titles. Graeme Mason chats to two of the men behind the derivative, violent and jolly entertaining undead romp Blood

IN THE HNOW - PUHLISHER: **GT INTERACTIVE** - DEVELOPER: MONOLITH · RELEASED: 1997 PLATFORM MS DOS GENRE FIRST-PERSON SHOOTER

E Buch





started my initial research i ve March of 1993 and one at th omparites: i sent the perior in was acont, says Ken Stiverman reator of the Build engine, "Gears Broussand sent copies to his veries sams and Nick Newbard took 🎬 ip with a project tentatively called Herror<sup>12</sup> Kan and Nick would absequently discuss the angine at east ance a week, working on the iniginal grid-based version before form success priority and conservation in the last DESCRIPTION OF THE PROPERTY OF THE OWNER Culdures an exercise provides H creating 3D sprites called variety Yexal paritos ans 30 medals made iin of a grid of culsos," explains Ker and in my format only the cubes a he surface were actually stored an ondered. It was nice being able til ivalk up to something and it not bein ii cardboard cuisui, but my editoij back they was very difficult to use and the reduction in frame rate who wing vexel sprites were hig reason why they weren't used more." As a result, in *Mood*, vaxels were used inainly for ammo pick-ups and the accasional piece of scenery)

Silverman was constantly developing the engine and experimenting with new ideas. "At some point he added

66 We had some pretty advanced technology in Blood that wasn't in the other Build games ??

22 5 76

in arts fit

first-person shooter using the Build enone." At this point the game was simply known as Hortor 3D and Nick recruited Peter Freese into his team Nick was basically the visionally behind the project says Peter and he and had worked at an early educational company called Edmark in the early?" Nineties Peter was working at anothe developer when contacted by Nick to see if he dibe interested in helping with with some of the A routnes on Horror 3D O Studios, formed in November 1993 now consister of Nick Newherd Peter and an artist. Kevin Kilsborn, "It was early a garage start up ' says Nick "antiough actually it took up my entire family room and two bedroorns. was recently married and my write was thilled at the dea of having a games. company in the house with employees there at all hours " he shules "All joking aside. Helen was a real peach about it and even pitched in as bookkeeper and ate-night playtestet

Studios was incorporated into Apogee

with the goal of developing Blood a

Soliet's recap Nick Nowhard, approaches Apogee and sets up Q Studios funded by Apogee, to develop Horror 3D using the Build engine Keep



# THE MAN WHO

in n and that the Build engine was both pre Quake and pre-Direct X " notes. N/ck Heck the closest I dipersonally been to having access to an actual 3D engine at that time was used in Ultima Underworld" Apagee planned to fund and publish a number of games with Build yot despite the engine's relative treshness. O Studios was keen to expand on and improve the base of its game "I architected all the core systems for Blood - basically everything game-related that wasn't handled by Build recalls Peter "Lalso extended the engine quite a bit sometimes with Ken's help. We had some pretty advanced technology in Blood that wasn't in the other Build games like our 3D sound and resource caching systems. Peter also built and extended the tools used to create the game content, such as creating a keyframe. based animation tool for the weapon overlays which allowed the team to easily manipulate various layers for the weapon fire animations and muzzle flare. effects. In addition to Peter's work, Ken

- RETHO GAMER [ 1

DEVELOPER HIGHLIGHTS SHOTO MOBILE **ARMOR DIVISION** SYSTEM: Various YEAR: 1998 THE OPERATIVE: NO ONE LIVES FOREVER SYSTEM: Various YEAR: 2000 ALIENS VS PREDATOR 2 DICTURES SYSTEM: Windows/Mac TEAT. SHO



voxels (into the engine)," remembers Nick, "and we incorporated them once the kinks were worked out and we had the tools to make them '

With Peter taking care of much of the technical side and Kevin Kilstrom the graphics, Nick was busy designing levels, implementing many of Blood's cool features and helping develop its macabre plot "HP Lovecraft was definitely a design influence throughout." he reveals, "and the original design for Blood - one gamers never saw - had a much darker and more senous plot." Nick cites George Broussard for pushing the game towards a more comedic angle as the plot wholly embraced a dark humour which he credits in part towards Blood's coder Peter Freese explains. "I think I commercial success. Remembers Peter "We diall planned for Blood to be a senous horror game hence the 3D sound: And we spent a lot of time coming up with ideas to immerse. the player and scare the crap out of them." When the programmer saw the direction the game was taking, he recognised it was likely for the best. "It probably helped that Kevin was a big fan of Bruce Campbell and had the film Army Of Darkness playing repeatedly in our tray office space!" he laughs Says Nick, "We would regularly watch horror movies at Q Studios, so avoiding crosscontamination from all those flicks was

# BLOOD

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ight handardigegetti . Artiii وأنجابيا بالبن ليعودنها بزيار تطريبا ألات عيل بالباذلية بأنشر فينب

Ni Cialitati a sublicitati in the state of the in the Construction and Silver والمتعاد المتحمية أودا التشاكر nothing addition Manadalah (2007) Sunda Patrili Analasi Sulawang much to the game, including beining نبالا معتلية يشبيه أعتتك تنبيه شطار وتنادأته ف alaa ali biyaa ahaa baa

impossible. Often the process began with Kevin, he'd mention a guote or joke that had us all laughing, and next thing you knew something from the movie made it into a sprite, game text or ievel

The team was also tightly focused on how the game 'felt' to players, as spent two whole days trying to reverseengineer Doom's control acceleration After painstakingly recording rotational speeds and keyboard acceleration, implemented what I believed to be a



similar system in Brood. I showed it to Nick and he said. Nope, that's still not right!"" Peter returned to his code to try to figure out why a few milliseconds. difference in timing made the controls feel different. "Nick was really hard to please when it came to this, but I think it was the right thing to place so much importance to it. There were several Doom clones out while we were in development and many of their controls "under just abysmal"

Statement of the local division of the local

While the development of Blood may sound five the best fun ever of course it wasn't. "We never had enough money to do all the things we wanted to do." continues Peter, "and our entire budget from 3D Realms (into which Apogee had morphed) was something like \$15K a month at its peak, with which we have to pay our entire team and operating expenses. The light finances put a huge strain on everyone involved and we constantly looked for other sources

to help fund the development " This was reflected in aspects such as 3D. modelling, which was way beyond budget and the expenence of the team. "Kevin was a traditional artist and sculptor," notes Nick, "with no 3D. experience and we had no access to 3D tools. So we went old-school and puttogether a green-screening. Kevin either built or scanned nearly every sprite in the game and hand-drew and animated everything else "

# espite being hugely invested in Blood, Peter Freese, under the strain of constant work for three years, opted to take

a break from the games industry for family reasons. "I took my leave as we transitioned from Q Studios to Monolith It helped knowing Monolith was run by friends (with) the backing to bring Blood to fruction." he says. The Washington based developer had acquired Q Studios in the winter of 1997 and as part of the merger gained the rights to Blood from 3D Realms, which was now busy on fellow-Build the Shadow Warnor And with Duke Nukem 3D proving to be a rearing success. Monorth CEO Jace Hall pushed the project onwards at pace. Level-designer Jay Wilson was already on board ("He was working as a theatre usher before .. so he was pretty happy with the transition to getting paid to make game levels," laughs Peter and the change to Monolith saw more hands to the pump such as Craig Hubbard, hired to flesh out Blood's plot We return to Nick now and enquire whether he ever met any resistance to

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the graphic intensity. "From my earliest discussions with George and Scott we never wavered from the goat of making the game as graphic as possible," he says, "and we never got much flak for it. Games like Postal drew way more attention from uptight politicians such as Senator Liebermann, so perhaps the dark humour was our saving grace Part of this humour lay in the weapons that Caleb can wield throughout the game. A pitchfork, flare gun and even a voodoo doll (the life leech) can beused to eliminate enemies in a valiety of amusing and satisfying ways "I wrote up a bunch of ideas for weapons Caleb could acquire during the game," recalls Nick, "and added improvisational onessuch as the lighter/spray carv<sup>®</sup> Despite the (approximate) 1920s setting, the team were prepared to forsake rearity in order to have some really cool weapons Meant me, the odd ethereal feel to many of the game's tamels came from Nick's experimentation with level design phnoples such as lighting, transparency. slopes, wall sprites, and sector controls and stacking. "I would put it all to the test in a level " he reveals, "and often I ended up with a fantastic-looking area. or some really great-looking effect, but not a complete level, and these found

their way into larger maps. As development continued apace early in 1997 two vital new men lent their talents to Blood. Firstly Stephen Weyte arrived to provide the gravelloned voice of Caleb himself. "The dark humour even infected Stephen," smiles



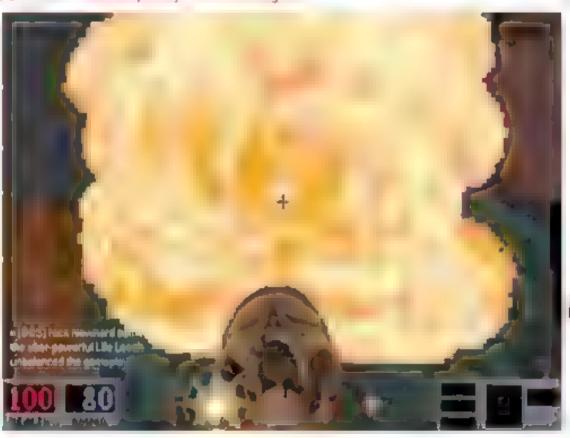
Nick "as we didn't discover Calebis love of show tunes until he started warming up during our recording session!" Secondly, the moody and sombre music to Blood was the work of composer. Daniel Bernstein, who also contributed what would eventually be dubbed 'Dark Wisdom' in Blood II In other words, the strange mot of Labn and Sanskrit that Tchemobog s demented cultist hordes used as a language

# s Blood's deadline loomed, the team found themselves facing an additional Challenge. "Very late in

production we were playing the capture the flag mod in Quake," Nick explains, and we found it so engaging, we spent the next 36 hours coding it into Blood."

As this was added, another feature a mode called Bloodlust in which Caleb would transform into 'The Beast' and need to maintain a constant slaughter in order to retain the powerful form. was abandoned "We sort of had it working," says Nick, "but we actually cut it because it kind of sucked in melee combat and didn't contribute to the fun.

# **66** We never wavered from the goal of making the game as graphic as possible ""



# KNOW Your F COMBIE

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One of the most anneying energies in <u> (internet) ( dis signification de sind</u> ( intelli) nd quickly home in an Caleb's toos. Bette at to waste ammo on them and pitchieri ika **little ait**:

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It was one of those things that sounded great on paper but failed in gameplay." in spite of criticism of the Build engine (which was starting to look a ittle creaky thanks to Quake), Blood received generally positive reviews and we asked Nick why he thought so. "Blood stood out for a number of reasons, starting with its core gameplay. - single-player and bloodbath. I d. also point out the attention to detail throughout the game. The movement was light, the single-player levels were huge and fun to explore, the weapons att fires, positional audio, special effects. all of that plus the great gameptay" In addition to Quake, the game was also up against fellow-Build title Shadow Warnor, which acted as the primary motivation to the team. for getting the game out as soon as possible. Nick also reserves particular regret for releasing too much content in the shareware version of Blood "We should have released fewer levels and weapons and would have probably garnered more sales at retail he grimaces

its minions 🗮

Our special thanks to Nick Newhard, Ken Silverman and Peter Freese.

# THE MAHING OF: BLOOD

Nevertheless, both Nick and Peter look back very fondly on the crimsontastic FPS If was my 'first child' and years of effort for a small and dedicated core team that worked trelessly on its release. And we really made a gamer's game and to this day our Bloodbath mode was the most frenetic and fun multiplayer mode I've ever experienced." says Nick, while Peter minimitudes "Desprie the bittersyveet regret for all the things we don t manage to get in to it, im definitely proud of the game. And if anyone wants to fund Blood 3 then count me in!" Caleb stands before Tchemobog s temple in his coarse, sandpaper voice, he asks why the Chosen were saughtered. The evil god looks down upon the lone figure whose great power a now covets and wishes to use to take over the world, "Mmmm is that so?" growls Caleb solemnly, drawing his trusty flare gun and preparing for one final, decisive, battle with the god and







# We speak to Dropzone, International Karate and Mercury developer Archer Maclean about a subject that's very close to his heart – classic arcade games

# What's your earliest memory of visiting an arcade?

I was a lod on a school trip to the seaside town of Bude in Comwall, in 1972 or 1973 and got hooked on a strange-looking vellow machine with a moving white dot and beeps coming out the back it turned out to be an onginal Atan/Syzgy arcade game with PONG painted across the top, which then took all the money in my pocket. got me into trouble.

# What's the first arcade game you can remember playing?

As mentioned above, I was hooked on Pong from a very young age. As a kid in the Seventies I would hunt down arcades wherever I was and have vivid memories of all the first time. encounters with games like Breakout Tank Night Driver, Star Castle, Space Invaders, Asteroids Defender and so on. In 1979 I had a part time rob for a focal electronics company and they put a Space Invaders pocktail in the shop area - sure enough the staff customers and myself constantly prayed I day and night until it broke through overuse!

### Did you visit any arcades in your younger days? What were they and why did you go there?

Lused to skive off school, catch a train into London and head for Totter ham-Court Road / Charing Cross / Leicester Square where there were dozens of arcades at that time.

I can remember one particular piace had a two-player black and white racing game sit was Sprint 2 and it had a faulty coin door - every time you put your 10p in, it would drop out the bottom straight. into the turn upsion my school trousers. I candy explosions, survivable collisions,

Loften wondered what those turn-ups were for We must have reused that 10p a hundred times that day

# Why do you think shoot-'em-ups were so popular in arcades?

Back in the Seventies I think if had a lot to do with how the world was going through a space race and Cold War arms race. Every commercial electronic gadget got branded as a by product it be calculators, digital watches or computer games.

Whilst Atan's Junar Lander was a classic directly related to the moonlanding main-frame games of the Skitles, we also had UFOs and little green men served up with everything These would often appear as simy blobs in Star Trax, or ones with breathing problems like Darth Vader in the first epic Star Wars, and hasty ones like the face suckers in Aven Then there was Close Encounters Space 1999, Sitent Running and even daft stuff Ine Moonraker

Basically a lot of early games featured you as the saviour of the human race, protecting the home planet \_\_\_\_\_be electromechanical ball bearing \_\_\_\_\_ from an aken onslaught, and I think this games but are immensely addictive to appeals to a subconscious human need anyone who attempts to play them to survive

# Why do you think that arcades were so successful?

It's hard to proport one reason, but the fact is we like to play games - always have, always will

What arcades did was provide a major new medium with which to immerse the player giving them eye



sound effects

and unique comrois that conidtake a lot of more grief than any home. console pystick, all in exchange for 10p It was guite the fix back then

... To this

# What do you think was the cause of the death of the arcade?

There were many reasons, including oversupply, too many clone games of mediocre quality, the arrival of endless biand interchangeable JAMMA game boards that fitted into unified arcade cabinets instead of all the unique cabi designs that flow shed in (the) rate Seventies There was also the fast growing home video console market

and home computers that would often have adapted versions of what was in the arcades, although rarely as good

## What's your favourite arcade game and why?

I can't really name one all time favounter but the ones I still like plaving a lot would be Robotron Missile Command, Asteroids, Space Invaciers and Tempest However Lalso have other types of Eighties machines such as Taito since Cold Beer, which might

### Tell us a little about your impressive coin-op collection.

The earliest cab a Streets Defender was bought around 1985, followed by a JK Robotron which Estill own and is still working on its original board sets

About 13-14 years ago decided to sell the Streets Defender as wanted to hunt down a real Williams Defender Google and eBay were just happening. and I was amazed at how the price of collectable arcade cabs had gone through the root and started to look around at ways of acquiring loads more I ended up building good relations with numerous American collectors, courtesy of internet forums and in the following

few yeas imported a few containers worth of cabs from the USA as they were so much cheaper at the time and also in much better condition that the damp rotten ones often found abandoned in damp UK garages after I years of abuse. So began my interest In restoring my machines to near mint. | reproducing all the artwork and other parts to make them look better than when the came out the factory 35 years ago But that's a personal choice thing as other collectors like to keep them. grungy smelling nice with beer stains and fag burns

In a way was paying homage to the machines that inspired me to write. games in the first place and have subsequently got to meet a lot of the original people behind those original machines including £d Logg, Eugene Jarvis and even The Creator himself once - Noian Bushnell!

# Are you still actively restoring machines? Which was the last one you did?



# <u>Inc memories</u>: Archer Maclean

Archel activity imported many of the general are a the Space Anaders Laborat he manting

Mes but not as much as I used to See the peture of a Space Invaders cocktail table machine that is now in sparking condition think ve done those aliens . proud with that one

I still enjoy recreating precision side-art prints, the most recent being Battlezone and a tate Vectorbeam game called Speed Freak ★

e The Almole Command cabinet aren here was featured at a restor accor project in an early where of fire Gamer

# **A MICROVISION RETROSPECTIVE**

Often billed as the first handheld game console, the Microvision is actually an evolutionary step in handheld electronic games, those distant cousins to videogames. Marty Goldberg reveals the history behind this pioneering product



# ONE LISION: A MICROUISION RETROSPECTIVE

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lectronic gaming in the paim of your hand has been around almost as long as videogames While the latter required a TV, the former arose in the mid-1970s as a way to use up excess calculator parts gathering dust in a market recently taken over by the Japanese. The class of games was created in the US by Matter after exec Mike Katz saw a new opportunity for those stagnant parts by repurposing term to play games on. Assigning some engineers to the project they came up with a novel way of using micmontrollers (a small single chip computed with on-bowin game node to drive an LED display and the Mattel Her finitus group was born. Comprising sharing more than glowing LED segments housed in thethe held plastic, they were a far cry from actual videogames, but mose small electronic games caught. the magination of a generation of children.

As other incloantias began to enter the marker a "unity find had happened by 1978 in the US sales of elect linic games actuarly outsold home videogames. in fact while the magazine Newsweek was "eleoval lig the high erin toys and games on its cover

that Christmas nome viteogame sales were hit hard Admitionally a display shift had been brewing in the calcit afor market its in inbased calculators gave way "Clant vacuum 1 Jores, ent display, VFD, technologies with spligk wind elements - and liquid crystal ( Mykely ) to energiniver power consumption

# [[The chemicals'] speed determined how many lines you could have in the display ))

the stace was further set by the appearance of the a other to Ment this year Designer, by Bob Doyle, this a idheib electronic dame was cleased by Parker Bros and wont head to head with Miltur Brudley's tabletop. format Simon, designed by the eigendury Raiph Baerl mat Christmas seasing Mennis instantage? It collidig why more than one game is with trable to several atte entities in games much ike the tellicated videogaline in soles of the mid 1070s.

I was surring this backet to influor able electronic don in anne that the next generation of these handheid games we elbeing designed at a small firm in Santa Monie C.A. naked western Tech, blodies, kay Smith had founded Western, enhnoungies on 19 September 1978 as an envineer rolling to the sourceberry rolling see es a litery's for the major tay car war es of the etal A thiy three tank lot sortial pay had come up with the except of what became the Microvicion manks. to a small side busilless of the company. We vere cauance, he har cars har warminto an CD display and were lieing them out lighes Alloraft a major manufacture: of LCD displays at the time is says law A, the time, LCD displays were limited to a threerow display As Jay Illuminates, Depending on the make-up of the chemicals, their speed determined

how many tines you could have in the display in



peneral, three rows was about it." Realising that. three rows of dots was not enough to do a meaningful electronic toy industry as well game display, he came up with a novel idea akin. to how today's 3D graphics engines 'clip' graphic elements not being used in order to save processing

speed. "We realised the graphic displays at the time counted every pixel every minute, whereas in a game display we would only use about 20% of the pixels at a time. Why worry about rows not being used? So we created a display system that only governed the rows being addressed " In this method, oxel rows that are on most of the time and static require the least amount of attention. Rows with semimoving objects require a little more, and rows with regularly moving objects (a shot, a ball atci require the most. This advancement allowed a formerly unheard of 16 rows of pixels and in turn created an CD display that was much more viable for playing games on

Having to come up with a custom CD driver chip, the thought became that

If they were advancing the technology this much display-was they might as well make it a programmable system that could swap out cartholges. The problem was, once again, the technology (and cost) wasn't there yet to support a full microprocessor with swappable game ROMs in a handheid format.

Most LED handheld games of the time (and electronic toys in general) used what are called microcontrollers. A microcontroller is a chip that is essentially a full 'computer' on a single chip. That means the processor, RAM, input/output and other related technologies that are all separate in a traditional computer are combined in a single chip. Now, that chip and its resources were nowhere near as powerful and pientiful as a regular microprocessor-driven system at the time, but they weren't intended to be Microcontrollers were created to be used in small, compact devices. Devices such as. . you guessed it, calculators. That's one of the reasons why Mattel's first handheid electronic game (Auto Race) uses a microcontroller and the technology became a staple



popular board game, Bartinship, It's canarriy worth seeking out.

of the handheid electronic games industry and the

## he actual software that was to run on the microcontroller was usually packaged within the microcontroller IC itself in ROM

format, further adding to the compactness of the device. However, just like all the other resources in the microcontroller, this meant you had a very irrited amount of ROM space to work with. The programmer of Mattel's Auto Race, Mark Lesser, had to fit the entire game (logic, scoring etc). into 512 bytes of code. A feat that makes the typical 2K available to Atan 2600 game developers of the time seem spacious.

Jay Smith's solution was to leverage microcontrollers in a way not unlike dedicated videogame console manufacturers had looked at that year with their single-chip 'Pong-on-e-chip' based systems: create the illusion of switching out games by switching out the dedicated. systems themselves. In that format, the

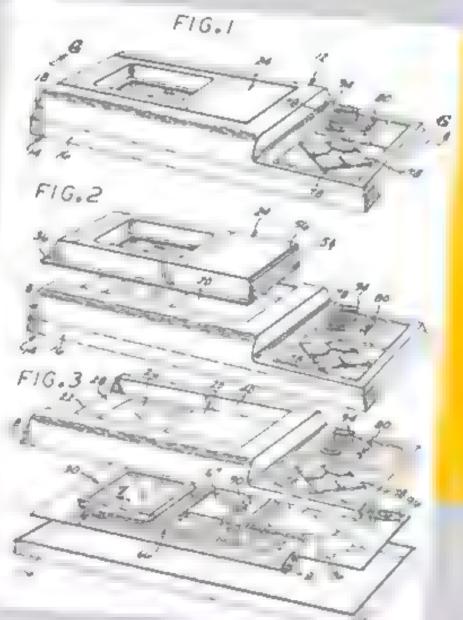
system is really just the controller and display mechanism and the 'guts' are all on the part being swapped out. Companies in Europe like Hanimex. had started releasing SD 050-based consoles in 1977 that did just that, and Atari had its Game Brain. it showed at the summer '78 CES but chose not to release. In the case of Jay Smith's proposed device. the handheid unit would only contain the electronics for the LCD and controls. The microcontroller that contained the system's main circuitry and game intself would be located on a portion of the unit that would swap in and out, plugging into the other circuitry when it was docked

Building a prototype, Jay Smith shopped it around and Milton Bradley wound up biting at the opportunity. Mitton Bradley had started In 1860 as a board game company located in Springfield, Massachusetts, By the early 1970s, it had released board and novelty game titles that had become staples of many a person's youth such as Mouse Trap, Operation, Battleship and

# We created a display system that only governed the rows being addressed av Smith on how they solved the LCD issu

Connect Four Following Mattel's lead, it tentatively stepped into the electronic toy and game market in 1977 with the tabletop Comp IV (released in the UK) as Logic 5). A number sequencing game that was more an educational toy in the same class as Texas instruments. Little Professor, it comprised a series of LEDs housed in a case meant to look like a child's version of a computer, it was joined that year by an updated electronic version of its classic board game. Battleship In 1978 Milton Bradley followed up with a new electronic board game called Laser Attack, a futuristic Star Wars-influenced electronic toy space hohter called Star Bird, and the aforementioned Simon-It was Simon, though, that Milton Bradley knew it had a hit with, and so it pulled out all the stops for its introduction. The game of glowing coloured lights and musical tones made its debut at New York's own. location for dancing lights and musical sensations, the iconic Studio 54. When Jay approached Milton Bradley. with the concept for his handheld electronic game with switchable games, the firm knew it had an appropriate follow-up to Simon

The designers of the system – Jay Smith, Garaid Karr and Lawrence Jones - were awarded US patent number 4359222 for the Microvision. Entitled Handheld electronic game playing device with replaceable cartridges, it was originally filed on 30 October 1978



# ONE UISION: A MICROUISION RETROSPECTIVE

Described as a "A compact hand holdable electrical toy game assembly", the drawings show the initial proposed format for the Microvision which included both a primordial version of a 'd-pad' thumb controller. and a spinner for playing paddle-style games. An alternate version shown in the same filing is a little closer to what became the actual Microvision, including a 12-button keypad, spinner and removable faceplate

The development, from concept to full product, led to some interesting design work and changes from the initial concept. At first glance, the Microvision looks like an oblong version of the typical handheld electronic game of the time. This certainly wasn't needed for the electronics, as they take up about the same space (if not less) as the other games on the market. According to Jay Smith, the primary reason for all the extra space fell on Milton Bradley. Its reasoning being that the projected price would dictate the need for a larger size. as if the consumer would not understand they were paying for higher technology

he main unit itself houses the LCD, its special controller chip, the controls and the connection to the system bus that works similarly to a cartridge slot. It's

used for nothing more than I/O and power (Tiger's R Zone handheld in the Ninebes is smillar in construct. but with an LCD contained on the removable portion. The most interesting addition, though, which shows a lot of insight into its replayability potential, is the control pad. Instead of a defined keyped with raised buttons (as shown in the concept drawings) it features a flattened pad, allowing it to be defined as needed. by the faceplate. Combined with the spinner control, it provides custom control options on a per-game basis. A feature not matched until touch-based games proliferated on smartphones and tablet devices

The microcontroller initially chosen by Jay and company was the Intel 8021, an 8-bit microcontroller

in the same family as the 8048 processor used in Magnavox s Odyssey2 console (Philips Videopac series) and introduced in 1976. With 64 bytes of RAM and able to address a game up to 1K in size (the typical game size up to that point had been about half. that), it held enough resources to get the job done Interestingly though, the 8021 has a higher power requirement than the typical microcontroller used in these devices and, combined with the requirements of the LCD, it made the Microvision require two 9V batteries (which added to the size of the unit as well) The 8021 was replaced with the Texas Instruments TM51100 not long into the system's lifetime, however thanks to some ordering issues for the Intel chip. A 4-bit microcontroller that's part of the TMS1000 series introduced in 1974. the 1100 has less RAM and processing power but can address up to 2K in ROM. space. The other plus it brought was the lower power. requirement, allowing the Microvision to need only one 9V battery now Mitton Bradley responded to



# CASE

Here's what's holding the Microvision together. It's worth. noting that the bottom half of each front faceplate is typically different for each game. Connect 4, for example, has six control points while Block Buster only uses four

# CONTRAST KNOB

A leature rarely seen on even later \_CD-based handhelds, this enables the Microvision owner to adjust the contrast of the display mportant considering it's not backfil.

# BATTERY STORAGE

The original Microvision needed 9V batteries. Changes during the production run lowered power requirements. The second slot became extrabattery storage







# LCD CONTROLLER

The custom controuer chip for driving the then groundbreaking LCD display. Commonly covered with a wound copperlassified for sticker to protect. from static discharge.

# LCD

Dustom 16x16 LCD display designed by Jay Smith and his learn. Unfortunately, because of early manufacturing limitations, it's prone to breakdown and a condition known as screen rol.

# TOUCHPAD (12 KEY)

12-key touchpad which has its areas defined by the faceptate Technically similar to number pade on console controllers like Intellivision and Colecovision.

# PADDLE

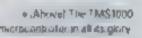
The Microvision's mounted spinner control. Its functions. differ on a per-game basis and include everything from a traditional paddle control to adjusting range settings



attach new cartridges for your handheld. In total just 12 different games were created for the machine making it an interesting challenge for collectors.







 [Right] Funnity enough, Black Buster & Mitton. Brailley stake on the arcade ha Breakord.

the dropping of one battery by leaving in the extra. battery port instead of redoing the system mouids. simply unwining. I. The old battery port was now redubbed as lextra battery storage. They couldn't escape the need to recode the software for the games however for the more primitive TMS1100

The microcontroller as mentioned, is housed in a removable faceplate. Each faceplate is designed to give a custom experience to the game inot unike the elements of an arcade game. The game's name is provided in a unique and colourful malquee and the screen bezei contains colourful surrounding graphics. and sometimes overlaid markings relevant to the gamepiay Finally there's the control area. Using a combination of moulded plastic to expose the relevant spots on the touch pad and coloured text. or graphics that describe the button's function, the control customisation available for each game was unparalleled. On the reverse side of the panel is what looks ike a dust protector similar to the Atan 2600.



MICTOVISION

protectors, however that s not its function. While the problem of state discharge on the exposed contacts. was solved in videogame consples it was a major issue for the Microvision. One wrong touch and poof if would go, wroing out the game and microcontroller. The cover that flips off to expose the contact was meant to protect it from this mishap.

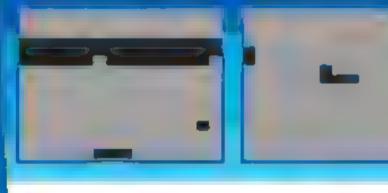
### he Microvision was released in November 1979 for around \$40 along with another high-tech toy offering by Milton Bradley, the programmable Big

Trak It came with the Breakout clone Block Buster along with three available launch titles Bowling Connect Four a version of Milton Bradley's popular 1974 board game and Pinball

The Microvision was of course not the only next generation electronic game to hit the market in 1979 with an advanced display, as toy manufacturer MEGO (famous maker of superfiere toy dolls and doils based on movies like Planet of the Apesi came. out with the Mini-Vid series of tabletop two-payer. games. Featuring a 16x20 VFD display, d came #1 versions for four different games. Break Free Dodge City Gunlight Sea Battle, and Spacewar In fact 1979 turned out to be the year of the two-player handheld electronic game. Coleco had the Head to Head series. of tabletop sports games, while Pulsonic released its ciassic two-playar Basebail game

While the ability for two players lone on each end of the unit) to play head to head was certainly an advantage, you still had to buy four separate units Though Microvision was only one player the

# ESSENTIAL GAMES If you do find a working machine, play these



# **BLOCK BUSTER**

Use the luns lie sibulit in paddle to till he ball and knock away bildks What erse can leafly be said of this MADIN FOR PROVINCE & TO WISH calls makes if a normal above the letis not the version of the game is self. of the activo ican seamacrual puriner out information a reen pacitie Eigne thumt peds and inningue des les tound pring libr the provide strategy of the second second of h frohits as a way sho A material date to ark & Y print 1 regions enclosed to mind. and feedback needed to envoy paddle. ames and he Mic is skin has it

# SEA DUEL

A one pluver vers in of Milton H adles site herhip boald game. n tax many ut he games on the Mo in your were we seens if MB board games and light number low dismay of lay om th who wanted triexparitibeyond base offerings one la destriover is prifted agains a submalline with an emphasis ion. tects. Designed in we players the proposition and analy pring are pir manuficher s and le 2 194 ahead at me theowar have game execute hem inplays kimilar to some of he Ame - an Funiball sideshow games of the early us

# COSMIC HUNTER

In this space game you re hunting atien clearures while avoiding bei ers hiddet laps and being aptured by said anims. You way ge. Even on and and an elthoy rulal claptured vourigament over By the same liken, you get to capture as many alters as whitr humling hear desires Allunii, e game pinbiliaig show thand it arright mechanics where Highter is the site of providing heleatives instalment a Dipad die trohaiphd in algame a Constant Gamper Yokay used to great effect on Nilliendou Came & Watch games starting mildle

# ALIEN RAIDERS

A wave wavaders clope it s ust different enclugh to avoid any legal reques Not , x ally unertailed UNE AS BLOOD & THE A DOM I AND right confront ry to each your deof the screer. They don't fire they is try to get at you before you cap shull them with gameplay that s mire if a loss between Space invades and Midway's then eliently managed at addressing Sprace and you very process state and there. from one of three pre- though sprits with a valiable length vaser beam whose length is decided by he system's spinner i

# TAR TREK PHASER STREET

The only intersed ournel on the Might vision if was developed as a the in the most links Shart Tells. The Men in Praise By the inter a ful appart release however the var-Trek menne was dropped and the game was renamed Phaser Strike The plemese is what you despect on Star Tria game shike Kingkins what a new aris M ... Commences Mitway Sea Way A the Kur goes thy his 2 mealing air is the silver you get to shoot a memitram any area, hilee ghaser barks



advantage of being able to play different games on the unif outweighed that fact for parents. Likewise, the appearance of the Microvision disproved the statement by Dick Dalessio. Parker Brothers, director of product planning, who revealed in the December 1979 issue of Popular Science that The electronics are basically the same as last year but the programming makes Them entirely new Airhough that was certainly frue in relation to the expected updates to aheady popular. Footbal and Basketball games by Mattel and Coleco and the onsiaught of Simon competitors.

The Microvision was a big success that first year, and according to some reports earned \$8 million in revenue. Over the next two years the library expanded. to include Mindbuster Baseball Seal Duel, Allen Reiders, Cosmic Hunters and the licensed Star Trek Phaser Sinke However beyond that initial year the sales continued to steadily decline. Thanks to the runaway success of Atan's release of Space Invaders for its VCS console the problem was that actual videogame conscies were fast becoming king again in 1980. The entire handheid electronic game market started dropping drastically and was relegated to a

# (A compact hand holdable electrical toy game assembly

cheap portable gaming accessory for much of the 1980s until Nintendo released the first actual handheid console in 1989 is monochrome. CD-driven Game Boy itonowed shortly after by Atar. Corp's full-colour. LCD Lynx handheid console) Milton Bradley stopped manufacturing the Microvision in the US in 1981 and dropped at in Europe in 1982.

Jay Smith had actually proposed two updates to the Microvision - one with a larger display and another with a colour LCD but Milton Bradley declined, feeling the format had run its course. Not one to rest on his jaurets, Jay Smith did move on to meate an CD game watch for manufacturer GCE and then the equally mnovative vector garming console the Vectrex. Million B adley wound up picking up the latter for European distribution, and Smith even looked at doing a portable version of the vectrex in the late Eighties that never panned out

Microvisions are actually extremely collectable items today, not as much for their uniqueness but for the



A vew of the faceolate's edge connector normally covered by a retractable spring-loaded cover.

ranty of working models. Because of the primitive manufacturing methods behind the groundbreaking CD display, they are highly susceptible to temperature. changes. The chemicals in the display are also prone E exercise a condition known as screen rot that eventually destroys the display

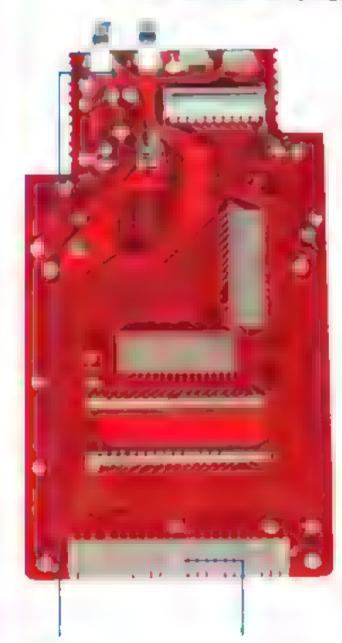
Milton Bradley released a European version as well (which came with its own viny! sig-on cover! along with European versions of the US games of a meeexclusive Super Block Buster The Microsomon might not have been the huge enduring success that Milton 8 adiey was hoping for but it remains an important foothote in gaming slitch history 🗮



Special Thanks to Scott Schreiber, Benj Edwards and Dan Boris

# **INSIDE THE FACEPLATE/** CARTRIDGE

Each faceplate actually houses the main electronics of the unit and plugs in like a cartridge



BATTERY

CONNECTOR

These leaf terminais

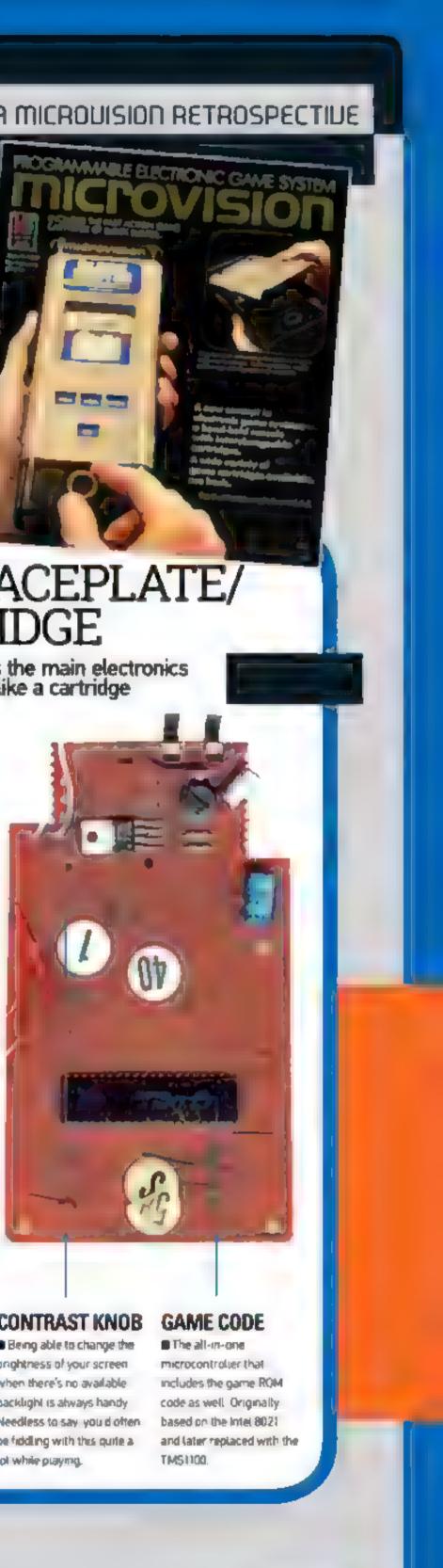
connect to the battery

to the microcontroller

leaf terminals in the main

unit when the faceplate is

plugged in, providing power



The part of the faceplate that plugs into the main unit, these edge connectors provide the microcontroller with access to the controls and display

SYSTEM BUS

CONNECTOR

# Contra: Hard Corps

PLATFORM MEGADRIVE DEVELOPER KINNAMI RELEASED

IN ALLE IN AND SPA.

onami narmed unstoppable in the 18-bit days, churning out endlessly inventive games that would often push the host hardware to its limits. This thraing battle from its only Mega Drive Contra game s a perfect example of the creativity and imagination that was flowing from the liapanese studio during the Nuneties. It s all fantastic skilmish from ever two that sees you attempting to bring an enemy to justice. Sadly theis placed himself in a gigantic mech suit that stomps around in the distance. Trying to hit you with project ies and its arms, before, unning forward and attempting to squish you underfoot. It since only an amazingly memorable moment from a game packed full of memorable moments, but also shows, just how technically proficient Konamiwas it the worpler Treasure got off to such an amazing start 🗯

# BIO

Secure of Concession and Diver accession Withspiel Had Kumustick upor and Gody Magai Dinks Examine garme is annually limiter true Coming II. it's a feir conclusion to come to. thanks to Hard Corpe's insans, breakneck pace, inventive and eclectic bosses and the same sort of breathtaking sesthetics that would appear in future / Treasure games. While the control system is arguablyweaker than the one found in-Contra III, the branching levels and flowing nerration make ( for one of the best games in: the series.

# MORE CLASSIC CONTRA: HARD CORPS MOMENTS



# "You sha'l not pass!"

One of the freakiest bosses is found on a late lungle stage. As you being to closs a bridge la shadowy form appears behind the water!a Two huge clawed hands then appear and grab your waik way shaking it violently While you can't be disioidged. It does make it likedibly tricky to the off accurate shots into the boss slugly insectord face



# Enter, Soundwave

You're not even half way through the first level when this grant poss appears. First seen as a monstrous rigure stomping in the background, It suddenly leaps in front of you filling the screen! Konami uses clever sprite splitting techniques. to impress while keeping you busy by having the metallic terror assault you by finging cars and summoning massive jets of hame be able to take them all down



# Motorcycle madness

At the start of stage three you find you self in a Jarren wasteland Tiny splites race down the mountains in the distance and you struggle to make out what they are Then motorbilles suddenly spring onto the scieen ready to un you over As you see more bikes appear in the background partic busids as you wonder if you li



# It's morphing time!

After catching up with a wanted Macker he sends you nto a vetual world hels created it s a victous place if lied with deadly consteliations of buils and archers. but worse awarts you. At the halfway point your adversary mulphs into a series of squares. that spit out Tetris shaped blocks, before transforming into a deadly tank and helicopter combo. Lep

Mad Planets should really be up there with Defender, Asteroids and Tempest on a list of classic arcade shooters, but sadly it never got the recognition it deserved. Mike Bevan speaks to Jeff Lee and Kan Yabumoto about Gottlieb's cult interstellar blaster

> n.mertiten a en. IN THE **DEVELOPER**, N-HOUSE HELEASER INS. PLATFING ABCADE NUMBER SHOWS

ny people will never have actually laved Mad Planets. at least not in its priginal arcade 💶 👝 format. But readers:

of a certain age may well find the acreenshots on these pages familiar. The game was released by American coin-op maker Gottlieb in 1983, just months after its much more famous arcade title Q\*bert Artist Jeff Lee, ( creator of the Q\*bert character, was also behind the graphics for Mad Planets. And although not nearly as well distributed throughout the arcade world, it was encountered : by a Brighton-based programmer, Sinton Nicol, who used the game as the leasts for a much-loved C64 shoot-'em-up, Crazy Cornets./

In Med Planets the whole universe is out to kill you. It's a curious and ( finely tuned hybrid - part Defenders

pert Asteroids - and, like the latter. it's an acute exercise in controlling cheos. Against an imposing animated starfield, planets appear in the distance, and rush into view. They're harmless at first so it's best to dispatch them before they grow insize and start chasing you around the: acreen, moving in increasingly rapid elliptical patterne that make them. progressively herder to hit. For some reason, these planets are pretty madat you. Not only that, they carry little orbiting moons that occasionally ( split off and start attacking your ships You need to shoot all the moons: before you can start dispatching the planets themselves, and there can be



(Avanta) A large six-monoto playet and a section are; --parating its astallits to attack the ship,

up to five planets on screen, which: in turn can have up to six satellites in orbit around them. Coupled with the occasional errant comet and the little astronauts floating about: in need of rescue, it adds up to . quite a challenge as you try to make it through the game's 32 rounds without being mashed between: rampaging astronomical bodies.

The orbiting moons, which rotate: around the larger planets and cast



 [Accels] The 'energy' planets graded input order of size and expriment



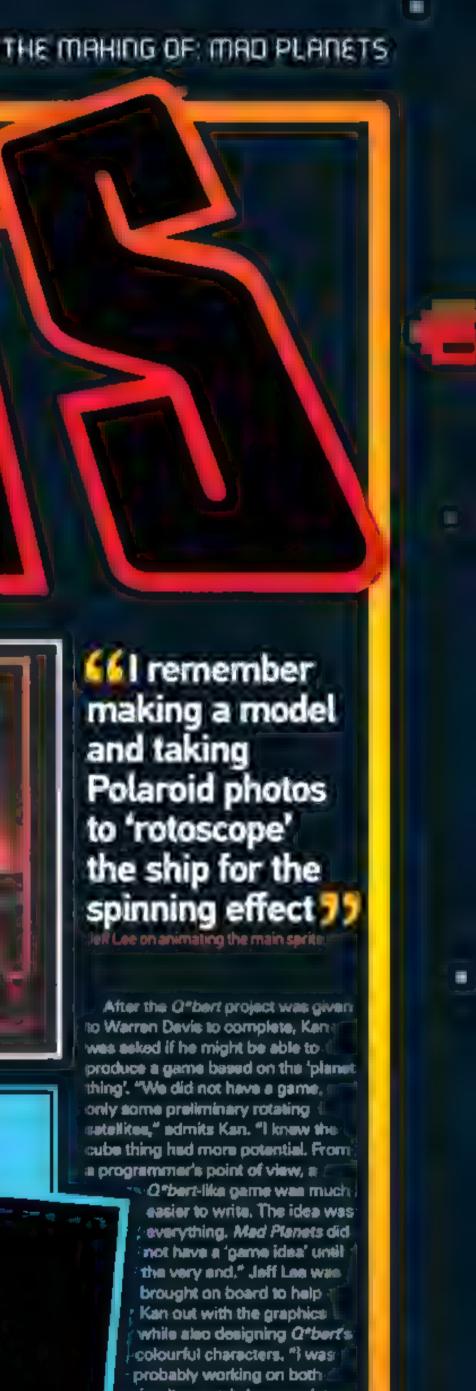


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tiny shadows on their surface, are # distinctive feature of Mad Planets and predate the idea for the actual game, Gottlieb programmer Kan Yabumoto hed been working on a project that ; displayed a series of ventical 3D { cubes on the firm's arcade hardware. inspired by a graphics demo that Jef: had produced on an Apple computer, this idea would later resurface in a Q\*bert After working on the cube display for a few weeks, Gottileb's vice-president of engineering, Ron-Waxman shifted him to another 10 project, assisting arcade hardware designer Jun Yum, "Jun insisted on something which showed the power of his hardware." Kan recalls, "where little satellites came in front of and disappeared to the back of a planet.







simultaneously because I was producing graphics for all of the videogames in the pipeline except Tim Skelly's games and licensed products," he tells us.3 For Kan and Jeff, turning 🚈

in (Arcade) Stage 32 really pushes the arcade for dware to re living, with justice consequences, and

3921 12

The 'satellite demo' into a full game required a little inepiration --and not just from other coin-ops. "I mmember playing Asteroids before I ever started working at Gottlieb,"// says Jeff, "It was my first 'favourite. videogame', But I think Kan has saidthat the impetus behind Mad Planets was the laws of physics - gravity, acceleration, action and reaction."

2002

17 - C

hote 🗘 🖬 Liebneten

Detail of the eye-establing arounds cabinets

eff is rather humble when we point out what a good job he did depicting the various planets and their rotating moons. "It was just basic animation principles and modelling skills..., and

interesting challenge with only 16 colours," he says, "1 inad previously done cellanimation: and one job was of a spinning Earth i got a globe and skatched out as t pencil test, figuring out how meny frames I needed for the allotted time... so this was a familiar type of easignment, except we didn't | there frame rates, only constraints of memory and how many foreground sprites were available." Mad Planets used a fairly unique control system: Comprised of a spinner coupled. with a joystick. The spinner allowed. players to independently rotate the direction their ship was pointing, Asteroids-style, while controlling. its lateral and vertical movement

32 4444

960

with the joystick. This insent creating a series: of sprite animations for the rotating ship as it moved through 360 degrees, comething Jeff solved in a very practical way, \*i remember:1 meking a model and: taking Polaroid photos to

'rotoscope' the ship's positions onto graph paper and then into pixels: for the spinning effect," he says. "I had to photograph the model at the desired stages and at proper scale, d then trace with paper and pencilover the photos. I then transferred the shapes into a graphic utility for designing the sprites."

"The whole game was written in the 3086 assembler in 24KB." says Kan. "The background star: animation was table-driven. The table was pre-computed on my home computer in BASIC. The twinkling effect was achieved by occasionally substituting the coloured pixels with a blank character during the game cycle. Kan's program pushed the arcade hardware to its limits, perticularly as

DEVELOPER HGHLIGHTS

REACTOR

YEAR: 1982

**SYSTEM: ARCADE** 

YEAR: 1962 👘

Q\*BERT INCLUDED

SYSTEM: ARCADE

**EXTERMINATOR** 

SYSTEM: ARCADE:

YEAR: 1989 🔼

the game progressed and threw increasingly complex attack waves: at the player. "The CPU for Mad Planets was a lot busier under the hood than *Q\*bert's,*" These according to a second second of machine cycle wee treated as a practous. resource. The motions of plenets, moons and comets were not linear. and the program had to compute the positions of all moving objects on the screen in the busiest round (Round 32) with five planets with: 25 moons, ten bullets,

200 stars, a comet and an erratic : astronaut plus the ship)."

As Kan mentions, the movement: of the attacking planets was not random, but governed by a ( complicated methematical formula based on the real-life laws of



# 





# THE MAHING OF: MAD PLANETS

physics. "There was a 'rubber-band' effect between the planets and the starship, relative to the distance ( between them, a/concept known: as Hooke's Law," he explains. "The further from the ship, the stronger the attraction is. Therefore, when you finish the very last moon that: belongs to a planet that happens. to be at the farthest corner of the screen, the planet comes straight at you at a surprising speed. I also wanted to make sure the game ( played fairly. For example, when the starship was on the right-hand side of the screen, a cornet would always appear from the left-hand (opposite) side. The only thing h hated was the fact the Mad Planets: 'universe' had 'adges' that bounced the planets even when it was red hot. mad and fast."

"After we had the basic game, we spent weeks and months: tweaking the parameters," Kan continues. "Mad Planets" was written in such a way that plugging a few numbers: into a master game control table changed the whole game dynamics Until I played the game a lot, I did ( not know that you could 'swing' [ a plenet by wiggling the ship and letting the planet orbit around your without hitting you. The cornet wee invented to kill a play trick like that, A lot of things in the game were: not by design but a consequence

of formulas we chose. But the parameters we later plugged in were very carefully tweaked with hundrads of hours of playing. We kept saying it was fun but something was missing... Then, in a the last month, the astronauts were added. Without them, there was no Mad Planets."

he astroneuts floating around the screen are: is good source of bonus points and potential extralives, and form the basis of a special "astronaut rescue! stage that occurs: every few rounds. "In retrospect, the grouping of three or four rounds as a wave and the bonus period at the

and of the group made a nice rhythm to the play. I think the helpless astronaute floating away from you at the perfect relative speed had a healthy dose I of frustration. Some of those are pure accident. Someone

# 66 In the last month, the astronauts were added. Without them, there was no Mad Planets 33



» (Accade) Denivoying all planets in a serve balane they prove large note you a Perfect Neural Denum,



remarked that Mad Planets had somuch randomness in it. And, no two games were quite the same..."

"One thing that people should give thous a poss," eavy Jeff. "I did produce credit is the sound effects," adds Kan, "Dave Thiel was responsiblefor the greet sounds in Med Planets. Listen to the cornet sound, the 1 harmonious Perfect Round fanfare. and the sound of your starship # disintegrating, which is probably one of the best crushing sounds. These sounds were not recorded from real life; they were all synthesized fromscratch." The final notable aspect of Mad Planets is the distinctive cabinet artwork, with its striking orange logo amblazoned across and below the d

acreened onto Myler, and elements were incorporated into the manual cover art." Despite being auch a striking and finely tuned game, Mad Planets was never going to eclipse its stablematein the arcades. "Q"Bert was probably the only game from the Gottlieb/ 1 Myistar company that had received a fair recognition in the market,"a says Kan regretfully. "Unfortunately, Gottlieb had extremely weak sales and marketing resources and our ( deserving products went nowhere Although Kan herbours a sense of disappointment about the coin-op's imited distribution, Jeff still displays a degree of satisfaction about the game. "Well... along with Q\*Bert. Mad Planets is included in 1001 Video Gamee To Play Before You Die," he points out "They are the only two Gottlieb games that make that list. Mad Planets lacked a 'cute' hook, but it's a raucous shoot-'emup, a totally different animal with ( some slightly bizarre touches, and a tough game, too. The game got. positive reviews back in the day, but there were plenty of slien, r and space shooting games as competition. I am gratified if there is a 'cult' fan bese." 🌞

Thanks to Kan Yabumoto, Jeff Lee, Simon Nicol and Bill Johnston at: www.chompingquerters.com



control panel. "The cabinet art was produced by Terry Doerzaph, with a lot of direction from Richard Tracy, a prototype control panel which was

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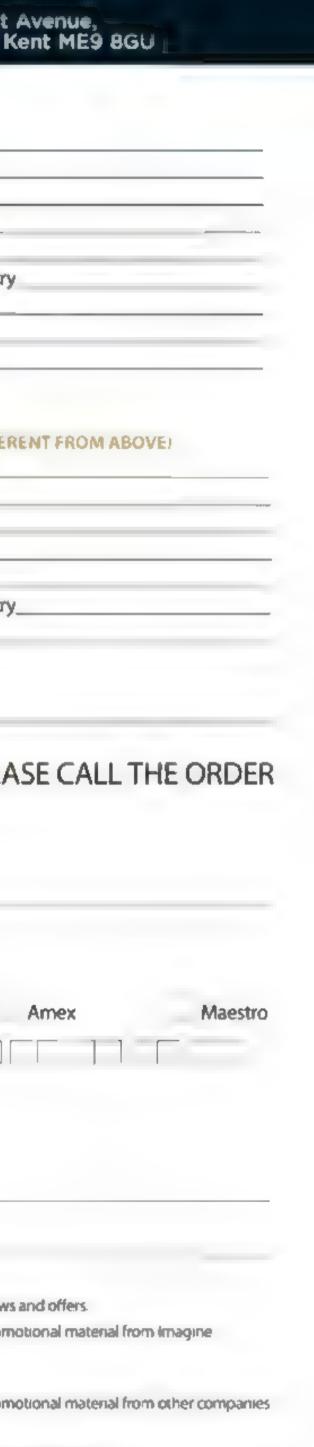
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# Retro New games that wish they were old

# KOLGARR THE VIKING

Built upon the ideals of the classic side-scrolling beat-em-ups of the 8- and 16-bit eras. Volgarr The Viking brings a very retro feel to a modern audience

DEVELOPER: CRAZY VIKING STUDIOS # SYSTEM: PC # GENRE: ACTION



the Viking is tough, riself rin be presains is Z and/( med in such a wey the

eated attempts before you propert id how to overcome a situation. "The Vhole project started with this quantion." poets one of Volgern's two developers faton Millet: "Wi is Super Chouls IF Choels the only earne we have ever seen that uses its unique jumping mechanic. Where you have fixed jump arcs but a momentum cancelling econd jump? There was just so much sool stuff that could be done with that!

The crust of Volgarz revolves around the Sarticular machanic, but takas much more of it inepiration's flavour, too. The clever undreasing whereby the more demage you teke. the more naked your hero becomes -- is also: Implemented into Volgen, As you explore you'r Tind chests, and within those you'll find staged apprecise: survive without taking a hit for longer and you'll earn a stundler shield, areater armou or even a fleming sword. Combine this with sil variety of knemics with simple attack pathrns in Increasingly challenging situations and you're left With a game designed to get you coming back to iperfect your play through in spite of the challenge bets. Despite that, it was never the plan is simply a inappy accident, of some. "We didn't start out with difficulty as necessarily being the primery goal,

seve Teron, "but our inspirations were incom an fifficult cernes, so it seemed natural, Beyond that we just find it trustating how many games are esigned more like movies then games – intending for everyone to get through it eventually, and rying to minimize replaying a section because the neares with the nerrative

Finding that perfect belance was the hardest per the general development. There's not too much bout it that's maily technical," claims Kristofor Jurtschmidt, "There's no speciel technique! that were used or enviring." The reason Volger: menages to recall He retro mots, says Kris, is due to the "countiess hours researching, theting, and vesting", According to Kris, his co-developed stok/inust have adjusted Volgant's gravity and initial jump velocities a hundred times before we even built any teel levels. Jaron epent a whole



Malgarer Tille Villing vans Bachard by Jarra and Kickster ter, appendires to Analationality of passe filmet (



iday just wetching the ghosts in the second level of Super Ghoule N' Ghosts, trying to figure outexactly how their movement pattern worked. He even reprogrammed how characters stand on the edge of ledges multiple times."

Hero aide-scrolling best-fem-ups have hade comething of a resurgence thenks to PC digital distribution, but it's this kind of dedication that makes Volger The Viking truly stand out from its peers. The perfection of the mechanics means that wan whan everything is being thrown your way, t never quite feels like you're being overwhelmed unfairly. Much like the side-scrolling beat-'em-ups that inspired so many of *Volgarr's* mechanics, they reliance on player skill is always at the forefront – all factor that has led to many gamers aiming for that perfect TCC run, 📅



# DARRAN JUNES

🛄 f inne eine achairt f inne groß rice ( ATT: Instit Vitigary The Vitigan Kickstarter, it wasn't that I didn't like bha idea of it, lijust forgot, Don't make 🕯 the same mustake as me and download this closer bravier provedately.



NT: 🗄 date sprite destin, 🖬 🖗 Molgannis a knutally tough game, it's . pertainly challenging but never unfair; allowing you to really appreciate the clever stage design.

# JONATHAN WELLS Reason sector for only a second size of

61 impertainandi Tinigary alab lah ( Lurriving on Xiren One's Gold Service. It's a little too difficult for me, but? there's no denying that it's a very suchnelting earne.



A DAVID CROOKES The first and successing have i i chunne it annational

Volgary The Viking yet, but its next ( sprite design and clever clothing system has certainly caught my eye. Here's hoese it hits PS Vila;

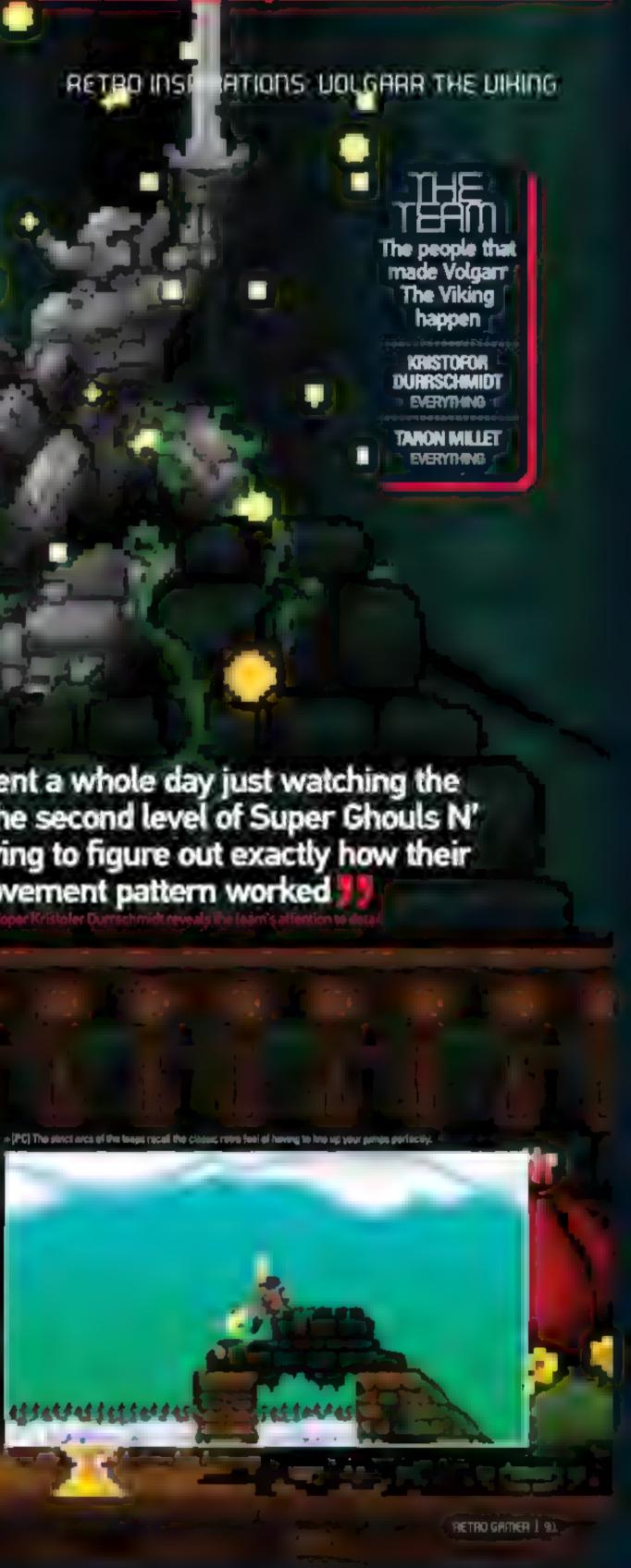


perif 1946 dan palina alteri land in reveni, eliter mara gati llargeintaj promovriar kiegera:

PC] The eventy ettack pettacto are interchanally simple are

We spent a whole day just watching the ghosts in the second level of Super Ghouls N' Ghosts trying to figure out exactly how their movement pattern worked

15545455655455455458



INSTRUCTION MANUAL FOR NUTTING INDUSTRIES

# NUTTING INDUSTRIES

When you think of the pioneers of the modern coin-op industry or the game console business, names like Bushnell and Baer come to mind along with companies like Atari or Magnavox. As Marty Goldberg shows, the last name Nutting deserves a similar level of reverence



most talk of the early res around Notan threal and Atan, there s

to both video arcade da amusements industry overall are arguably equally as important. Nutting Industries (NI), Milwaukee Coin Industries (MCI) and Dave Nutting Associates (DNA) were a succession of companies spanning a 17-year penod of innovation, resulting in products that either redefined the way things were or ied the way in showing how things were moving to become. All three — David's design and engineering background to do that were also created by the venerable David Nutting.

at Brooks Stevens Design Associates, a product design — quiz game," came the call to his brother David in firm with experience in every industry. Senously every industry. By this time Brooks Stevens had designed everything from the original Oscar Meyer Wienermobile to logos and packaging for Miller Brewing to the very first SUV, the Jeep Wagoneer which David had assisted on as well, it was around this - located in the major cities. Bill flew out to Milwaukee time in 1966 that David got a call from his brother, Bill Nutting, "Bill gave me a call and told me about his idea... and asked me if I would be interested in repackaging

his teaching machine into a coin-operated game," says eo arcade industry usually David. That idea was a plan to get both brothers into the com-op industry, an industry they knew nothing. about, with a new 'game' based on a product Bill had been an investor in. That product, a teaching machine for the US Navy, was designed to test students by using a filmstrip projected onto a screen to ask multiple-choice guestions. Students would then answer by pushing A, B, C, D or E buttons. During one of their meetings, one of the other investors jokingly suggested, "Why not put a coin slot on the outz machine and make it an entertainment device?" So now here was Bill asking if he could leverage very thing. "I want you to help repackage my group s-The story begins in 1966 when David was working multiple-choice teaching machine into a coin-operated Milwaukee, Wisconsin, setting up the same successful start-up formula mirrored later by Bushnell/Dabney and Jobs/Wozniak, the visionary and the doer

> As David recalls, "Bill was learning that comoperated equipment was sold through distributors where we spent several days putting together a plan. At the same time, Bill visited distributors in Chicago, Detroit and New York, learning more about the

# NUTTING INDUSTRIES LTD

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FIG.

MUTTING INDUSTRIES LTD

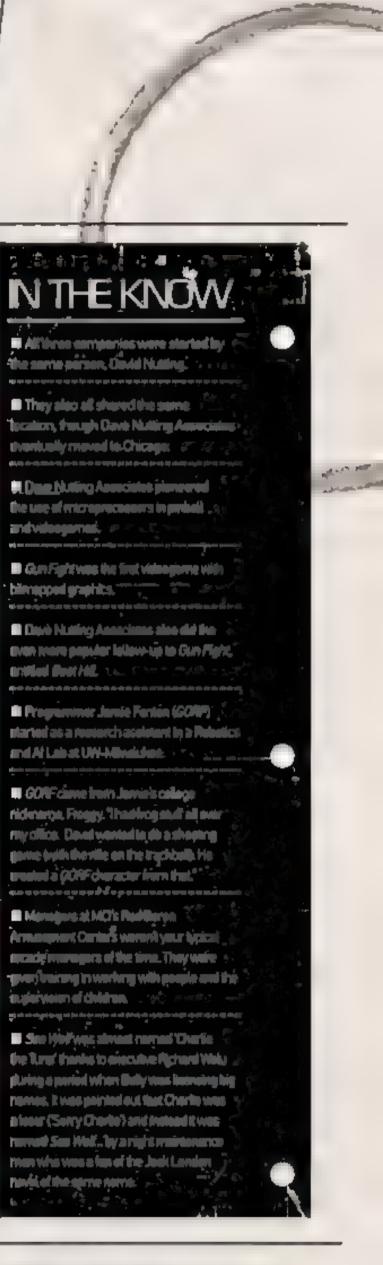


 Fig. 1. Molway's *Gunliph(*(1975) The first videogame with a microprocessor, thanks to Dave Nutting Associates.



# TIMELINE

E.E. COMPUTER DEVELOPER. LAUNCHES HUTTING INDUSTRIES AND, TODETHIR WITH BROTHER BLLS NUMERIC ASSOCIATES AND THERE HPUTER OUIZ THIRK, OPEND UP THE CORP. OF INDUSTRY TO THE NORI-TADŘÍCHAL LICARONE ÓF ARCADILI IARS AND BOMUNE ALLEYS.

ned (paraking helf fange), a kink TECH ELECTROMECHANICAL GAME THAT LIVES FILMETTIPS TO PROVIDE PRE-RENDERED PLICHT SCENES. EXPLOSIONS AND REFECTS FORM INANIPLAY, PREDATES LASIPICISE MAKES LIKE BRADIN'S LAIR, WHICH UNED THE SAME CONCEPT.

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THE OWNER AND JUST FREDERIKSEN FOLIND QAVE NUTTING ASSOCIATES AND CREATE THE PINIS' HCROPROCESSOR-ORMUN PINIBALL MACHINE, THEY ALSO DEVELOP THE PIRST HICROPROCESSOR-ORIVIN VIRUIS CON-OF HARDWARE.

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SALLY RELEASES THE MAKE NUTTING ANGCATES-DEVELOPED HOME **EINFAILY COMPLYCEL LATOR IGNOVIE** AS THE PROPESSIONAL ARCADE AND ASTROCADE DESIGNED TO SIE A HYDRID GAME CONDOLE AND PERSONAL COMPLITING, IT'S THE FRET WITH FULL-COLOUR H-REE

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CHAR HUTTHAN ACTING TES IN SHAF DIWILIP BALLY, THE NG MEMBERS OB ON TÙ ILDS SUCH AS QUANTUM PRYSIC





 [Fig. 3] Gavid Nutting working at the drawing board in 1972 at MCI

 [Fig. 2] The original beadquarters for all three companies at 3404 N Holton Street in Milwaukee, WI as approximation 1972 when it was known as ARCI

business. My expertise was design and engineering and Bill's was in marketing. So our verbai amangement at that time was that I would design and engineer the final product and Bill would be the marketing and sales. a had a good friend who was an electronic engineer. with Catler Hammer, Harold (Montgomery) designed. all the circuitry and I designed the cabinetry and electromechanical devices like the projector

The arrangement worked fine as the prototype was developed and tested successfully; that is until another relationship - one that usually takes a toll in any start. up - took precedence. Bill's write Claire decided she didn't like the arrangement and played the divorce card. threatening to become another notch in a staggering. statistic. Scicon Valley has the highest divorce rate in-California, and California itself is 20% above the rest of the nation. Bill didn't want to become part of the statistic, so he called David and said he was going to manufacture the game in California and that David should shut down his operation. The news wasn't what David wanted to hear, but it was also obvious to David that the current working relationship he had with his brother wasn't going to work. He had already sunk way too much money into the operation to stop. So the brothers went their own ways and started their own companies to market the same game Bill, under Nutting Associates, would be marketing it as Computer Quiz and Dave, under Nutting Industries. would be marketing it as IO Computer. Setting up a manufacturing location at 3404 N Holton St in Milwaukee and hiring Eugene Wagner for marketing, David's game became an instant success (as did brother Bill's), though for a reason neither of them initially knew about

he US con-operated industry was in the midst of a long battle against the stigma of gambling and organised crima, something it would not shed until the 1970s when videogames took over the industry. New York State even had a ban on pinball games that lasted for over 30 years, treating them no differently than slot machines. or other gembling devices. By the late 1960s, the industry had organised under the Music Operators of America (MOA). The MOA's existence owes itself to the age-old battle against the US music industry. that Steve Jobs more recently fought in the format of digital rights management (DRM) and renting of digital music. That being the music industry has consistently thed to squeeze every nickel and dime. out of people's enjoyment of music that they could The MOA was started in 1948 by a group of influential jukebox distributors and operators to fight against the repeal of the jukebox royalty exemption. It eventually grew to become a powerful organisation representing the entire spectrum of con-operated devices, including electromechanical, proball, pool tables, jukeboxes and vending machines.

At the time of the release of Computer Quiz and IQ Computer, the MOA had been working hard to hight the typecasting of coin-operated machines. specifically probail - a stigma that had severely limited the number of locations operators could place. machines. For instance in Los Angeles, California. about six hours south of where Bill was living, pinball machines were banned unbilthe mid 1970s. The Nutting brothers' games proved to be the right tool at the right time as operators used the machines to work their way into new locations. Both games could go



+ [Fig. 4] A page from Bath a two project regions showing some of the projects being pursoed in 1978. A fair participation by Java Nutting Associates, Instant as DNA,

# NUTTING INDUSTRIES LTD

# FROM THE ARCHIVES: NUTTING INDUSTRIES

FIG.3

everywhere because of their perceived edutainment. value. Operators would get into a location with the game, establish a relationship and then slowly bring inpinballs, pool tables and vending. In a lesson learned by both Nuttings and later leveraged by Nolan Bushnell with his creation of the fake competitor Kee Games. the fact that there were two manufacturers of 'Quiz' games also awoke the marketplace and opened up more operators and locations. In the amusement industry at that time, a great manufacturing run for a machina like a pinball was somewhere around 1.000 to 1,500 Computer Quiz had a run of 4,200 units and IQ Computer had a run of 3,600

Over the next several years, David and Nutting Industries continued on the edutainment arcade game. path using the same filmstrip technology, starting with a two-player version of 10 Computer called Dual 10 Computer and then various quiz replacement packs as well as another version of the unit, called Golf IQ . David also looked to diversify by hooking up with a manufacturer and distributor in London, England creating a subsidiary to market non-coin-operated versions to educational institutions as Modac Inc. and by expanding into food service vending machines. via some patents that Harold's father owned. It was the game offerings that needed to grow, however



 Fig. 5) The manual for Nulting Industries IO Computer Equation with its twee Coversities **Quer by Nummig Associates, it** opened up tocations formerly crosed to arcade games thanks. to their needy reputation over the preceding decades

# "I wanted to be the industry leader and develop the first microprocessor pinball"

DAVID NUTTING ON OBTAINING INTEL'S FIRST MICROPROCESSOR DEVELOPMENT SYSTEM

and in 1969 they introduced The Puzzler designed by that same London firm. Ward Marty Johnson would replace Eugene as marketing head by the endof 1969, just as they were working on their mostambibous project. Initially titled 'Leisure Time Coin-Game, by the time of its unveiling in October 1970 it. was renamed Sensorama. The first arcade game to feature a professional sports be-in, it was designed for placement at bowing alleys and featured 13 audiovisual bowling lessons given by pro bowler Dick Ritger

By 1970, though, it was clear that these educational arcede games were running their course, and with electromechanical (EM) arcade games already being dominated by the likes of Baily. Midway, Chicago Coin, Williams and Sega, a new format was needed Brother Bill Nutting and his Nutting Associates got their new format in the form of video-display-driven. arcade games when Nolan Bushnell had called up Bill's sales manager David Ralstin out of the blue. David was certainly open to the same synergy between new technology and games happening, and went sofar as to place ads in local newspapers looking for people to submit ideas. However, overall he wanted to expand the projection technology into fully projected games based far away from the realm of quizzes Looking to create a unique first-person experience with WWI airplane dogfights, in 1970 he began work on what would be the last game released under Nutting Industries, Red Baron, Using a pre-rendered animated \_\_\_\_ film that functioned by jumping to different animations, much in the same way LaserDisc games like Dragonis.

Lar would some 12 years later, the player was given the sense of flying a WWI biplane into aerial combat. It was accompanied by recordings of actual machinegun fire and plane engines along with haptic feedback. in the form of the controls vibrating every time the plane's gun was fired. Unfortunately Nutting Industries. ran into bad financial problems afterwards, forcing David shut it down and start over

It was in the exact same location, and with some of the same people, but on paper Milwaukee Com-



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## David Nutting

Retired and living in Anzona, in 1984 David had moved to Colorado to study quantum. physics, Hels now the author of two books. the 2005 released Language of Nature -Quantum World Revealed and the 2012 Secrets to a Creative Mind: Become the Master of Your Mind.

### Jamie Fenton

Jamie now tives in Sunnyvale, Ealifornia. Spending the last 30 years working for a long une of game, graphic, and software company start ups, she currently works for Amazon's Lab 12e on the multimedia and performance learns for the Amazon Kindle and Kindle Fire tablets

### Alan McNeil

After creating the follow-up to Berzerk called Frenzy for Stern Electronics, Alan also went on to do Winter Games and Sub Battle for Epyn, but has chiefly spent the last 30 years as a software developer. writing apps across a plethore of platforms as a consultant



- [Fig. 6] A special carr David Nutting had myried to give out at the Music Operators of America (MOA) show in 1968, the main cold op show in America.

# FIG.8



- (Fig. 8: David Nutting's brother 64 with his most famous product. Computer Space



 [Fig. 9] Jamie Fenton's video colt- do development station around the time of her games GORF and Rooby Roto.

 Industries (MCI) was a brand new company MCI. was carrying on where NI had left off and producing. film-driven war-therned arcade games like Blue Max Desert Fox, U-Boat and Flying Ace. However, it, was the direction that David and the MC board wanted to take in 1972 that really set MCI apart from other comop companies. Firms at the time sold to distributors and what are called operators, the people who actually run the machine on location. At the time, most locations were usually atcades, bars and bowking alleys on the Red Baron locations. David, meanwhile, wanted Coin-op companies might put their own machines out at these locations for testing during development, but they never actually owned the locations.

One of MCI's customers gave it the idea to change all that. During the 1960s, Jules Milman and hiscompany American Amusements Inc had sought to wipe out the negative image of arcades by designing. a new breed that were to be placed at the then new concept of mega shopping centres in the Chicago area, more commonly known as shopping mails Called Carousel Time, these family-friendly locations with carpeting and a ban on smoking and eating onthe premises were far different than their seedy penny arcade counterparts. The success of Carousel Time ted the MCI board to decide it should look into running. its own mall-based locations featuring MCI games. Based on the successful Red Baron game (which had spawned the recent Super Red Baron follow-up by MCII the first Red Baron Amusement Center debuted in the Milwaukee area Mayfair mall in 1972. Within the year they had grown to about seven locations in the Midwest, Noian Bushnell also tried to duplicate the idea in 1973 with Atan's own mail-based arcades in the San Francisco Bay Area, such as at Bay Fair Mall, but it never guite caught on (at least not until he combined it with pizza to create Chuck E Cheese). However, future — by their glowing LED score displays.

David Nutting partner Bally did manage to succeed. with its own in 1974 by purchasing American Amusements and rebranding it as the (more recently) well known Aladoin's Castle

th the success of the locations and M arcade game market starting to shrink during 1974, the MC) board Wanted to concentrate its resources. to investigate the new form of electronics called microprocessors. The gateway into this futuristic world arrived via an Intel rep who had stopped by MCI to extol the virtues of the firm's soon-to-be-released 4040 4-bit microprocessor. He took new hire Jeff. Frederiksen, who had experience programming a Burroughs mainframe computer, down to an Intel seminar in Chicago. "I wanted to be the industry. leader and develop the first microprocessor pinball. convinced them to sell us one of the first microprocessor development systems," says David.

Developed under a consulting contract with Bally, the pinball project also led to the creation of the final Nutting company in this article, Dave Nutting Associates, David formed DNA, a game engineering firm, as a partnership between him and Jeff Frederiksen in the early summer of 1974. On 20 August, Bally in turn sent them two Ficker pinball machines (a game yet to be released) to retrofit into solid-state microprocessor-based prototypes as proofs-of-concept. Completed by September, the new system was demoed to Bally management at the end of the month and over the next several years became the blueprint for the burgeoning microprocessor-based pinball industry, whose machines were distinguished

# DEFINING GAMES

FIG.9



# Gun Fight 1975

Released by Bally subsidiary Midway Mig, it was originally tiled Western Gun and released by Taito in Japan. DNA lumed il into a microprocessorcontrolled arcade videogame, introducing software coding to the industry, According to David Nulting its release caused a RAM shortage in other industries, it is also the first game to feature bitmap graphics, a concept only previously available inhigh-end graphics research systems. at universities and corporations.



# Sea Wolf 1976

Featuring a life-size penscope, 4's essentially a videogame version of Midways earlier electromechanical games Sea Raider and Sea Devil Its. advanced sound effects and firstperson environment proved a big hit. in the mid 1970s and it remained one of the most popular games of the period until Midway released Tato 5 Space Invaders in 1978. That same year the sequel Sea Worl II was also released, allowing two-player action with side by side pertscopes



# Boot Hill 1977

The 1977 follow-up to Gun Fight Boot Hill was programmed by Alan McNeil who fater did the arcade classic Berzerk for Stern, Using dual joysticks to control the positions of the of the Till speech chip – sometimes cowboy and his gun, it also features a colourlul western backdrop that the game is projected onto via a reflective. glass technique common in games of the period. Besides expanded ga meplay, it also added a death song and burial of the player on the I Infamous Boot Hill



# GORF 1981

Jame Fenton's classic shoot-em-up features several games in one, along with speech synthesis: "We used it, would vocause using garbage memory and it sounded like people. speaking in tongues "With levels that included licensed versions of Namco's Galaxians and Tato's Soace Invaders. that reason alone is why there are not many GDRF ports out there, according 🚦 of the game," explained co-designer -Lto Jame



# Wizard Of Wor 1981

David Nutting and Bob Opdon's game was inspired by the scene in Alien, where Sigourney Weaver is Iradiung the escaped alien via a small montor Using the same speech system and style of taunting as GORF the standout feature is its very theme. the wizard. When we put a voice into the machine, that got us into the mythology of who, exactly was doing the tallung. So we invented the Wizard We used the Wizard to disrupt the flow Bob Ogdon to Arme Katz in 1982

# NUTTING INDUSTRIES LTD

# FROM THE ARCHIVES: NUTTING INDUSTRIES

It was right around this time that the duo pursued their greatest accomplishment, however. The Inter-8080 had been released that past April, and according to David, "As soon as we were able to acquire. the 8080 processor we developed our videogame hardware based on a mass RAM system. For every pixel on the screen we had a dot in memory, giving us full control of the entire screen." What David is describing is the frame-buffer-based process now used Baseball, but it would be Tom McHugh's project. by every videogame coin-op and console known to man bitmapped graphics. Already in use in high-end graphics research computers at the time, David and Jeff were the first to see its potential in videogenes. Video arcade games and home consoles in that period were manually generating hardware-based sprites. (called stamps' in com-op (ndustry speak), even were microprocessor-based games became more common So the process they introduced was truly far ahead of its time, enough so they knew they dineed to look for some programmers to hire for future projects.

Jeff had been attending UW-Milwaukee at the time he joined MCI and studying under Richard Northouse, a professor in the School of Engineering and Computing, Approached for some students skilled in programming, Richard contracted out two Tom McHugh and Jamie Fenton, Recalls Jamie, "I entered the game business a little reluctantly. All the tales about 8ally being part of the Mafia etc. Since I was in Mirwaukee, I did not know about the Chicago scene. For a few weeks we worked for Richard and were later hired on directly to DNA. My first assignment was "Mirco Pin" Mirco was a pinball company that Jeff and David pursued a relationship with independently of Bally It was like the Bally Fireball way that Cyan was for Atan. It was followed later in the but had more going on. After that I got to work on a blackjack game on the videogame hardware and

that really impressed David. I remember the place [where DNA was located] wividly. It was a commercial space shared with the Red Baron arcade game chain. and there were a lot of games to play with. You just wandered around with an extension cord-

According to David, the first game they started for Bally subsidiary Midway on their new hardware was a baseball game (eventually released as Tornado that would hit the market first for Sally in November 1975 Gun Fight, Midway's licensed version of Taito's Western Gun in a process similar to what they had done for the Flicker pinball machine, the game was gutted and retrofitted with the bitmapped microprocessor-based system they had designed. With Gun Fight, the video coin-op industry had just met its future. And as Dave further notes, it wasn't the only industry to be affected. "Our system used a frame buffer of RAM that would write to the CRT RAM in 1975/76 was in short supply. In order to get a good price on RAM, Midway had to commit over three million dollars on their first release. This order consumed over half of all RAM in production in the world at that time, causing great shortages to other industries." Also according to David, Taito turned around and copied their 8080-based hardware for its game Space Invaders

From there, the now classic Sea Wolf (by Tom) and the racing 280-Zzzap (by "tamie) games followed, along with the previously mentioned Tornado Baseball. The string of hits led Bally to buy out DNA outright, and the group moved down to Chicago to essentially become Bally/Midway's research and design wing in the same year by the start of the design of Bally's simultaneous entry in to the new home computer and programmable .....



# "This order consumed over half of all RAM in production in the world at that time"

# FIG.10

DAVID NUTTING REVEAUS HOW GUN FIGHT'S PRODUCTION CAUSED A GLOBAL RAM SHORTAGE



 (Fig. 10) DNA developed this hybrid game console and computer system in 1976, released. In 1977 It was later renamed the Bally Professional Arcade and then Astrocade.

FIG.11



 Fig. 11) The back of the memory occursor drawn Ficker subelimetrie's backglass showing the ED. stopped of abare bred back light another the stopped and t based according type brist of da kind)

console markets. The Bally Home Library Computer Created as a full-colour bitmapped personal computer and gaming console (the first bitmapped framebuffered console. In fact/ that could also be leveraged In new coin-op designs, it saw a mail-order-only release in September 1977 with wide release in 1978. as the Bally Professional Arcade. More hits followed for DNA, most notably Wizard Of Wor and Jamie's smashgame GORF However, the video com-op industry went through a crash starting in 182, causing many firms to either downsize or leave all together. Sadly DNA didn't survive and was shut down by Bally in early 1984. Interestingly though, this was just as Bally was acquining the game firm. Sente (founded by several ex-Atari coin-op engineers and helmed by none other than Nolan Bushnell), which would serve the very same purpose as DNA over the next four years. 🗮

Special thanks to Keith Smith.

# NUTTING INDUSTRIES LTD

MILWAUKEE, WISCONSIN 33212







2

# PLAYSTATION

SOMY COMPUTER ENTERTAINMENT 1999 As a PlayStation-owning teenager, I resented Ape Escape a little bit. Not because it was a bad game, mind your it was a good game I just couldn't play

because unlike the vast majority of PlayStation releases it demanded a Dual Shock controller. Never mind the fact that the game and pad were available as a bundle, already had two standard pads and saw being forced to buy a third as a simple cash grab by Sony Dear readers. this is merely more evidence that I was not a smart kid, since traterise hed that Ape Escape is an essential PlayStation game.

Ape Escape is the sort of game that leadier in the Nineties, people had thought to be impossible on the PlayStation. The system had struggled to deliver the sort of open environments seen in N64 platformets with Crash Bandicoot in the PlayStation's most prominent platforming set es – himited to very linear pathways. But if you're going to chase monkeys around they need to have places to run and Ape £ scape certainly delivered on that front.

The Dual Shock controller was definitely a necessity top Even the L3 and R3 buttons were brought into play in a control scheme that was a more little complex than average but allowed for greater ease of monkey-bagging, with one analogue stick controlling the player and the other swinging the net. For the sake of nor buying a new controller passing up on Ape Escape was a big mistake but thankfully one tive now rectified \*



# 



>> Our latest issue looks at the spiritual successor to Micro Machines, takes to the skies with the remastered Wings and discovers if Halo is still the definitive firstperson shooter

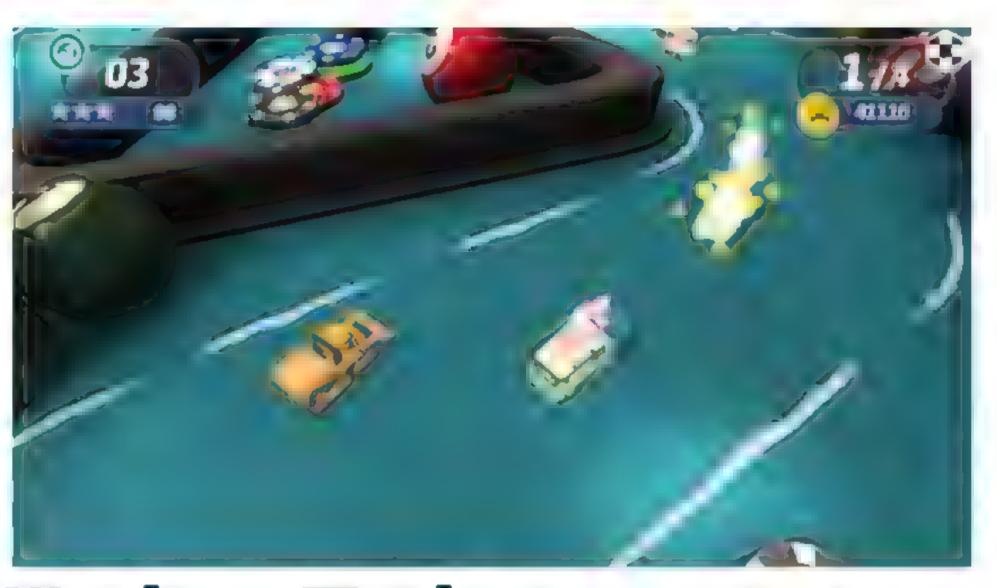


45. DARRAN Legend Of Grimmek 2 An incredible sequel that massively improves on the original, while feeling refreshingly old-school



NICK Wage Rena 100.00

It would have been nice to see some new mechanics. builthis a still greathin



# Toybox Turbos can codemasters recapture The magic of micro machines?

12

·07/



- ALSO AVAILABLE ON: P53 X80X 360
- RELEASED: OUT NOW. PRICE 1, 399
- · PUBLISHER: LODEMAS + RS
- DEVELOPER: IN HOUSE
- PLAYERS: 4

# OREF HISTORY

The original Micro Machines nede is debut on the NES quickly getting ported to many other home systems. It become a big success for Codemasters and numerous sequels allowed, including two spin-offs in the form of Micro Machines Military and Micro Manuacs. The last game. Micro Machines V4, weareleased in 2006

 IPCI While the environments do a: great the of unsulating the original's, tinny do hani e htile subdood.



Micro Machines remains one of the greatest party games of all time, so it's a brave, or perhaps

foolhardy, developer that tries to improve on it. Codemasters is obviously feeling brave, as it s decided to reboot Micro Machines only this time without the actual licence

From the moment Taybox Turbas loads up with its very familiar looking logo, it's obvious that this is a new Micro Machines game in all but name. The colourful tracks made from everyday items are present, there's a solid collection of toy vehicles to collect and the amazing multiplayer mode that made the original games so much funto play is all present and correct. Start playing Toybox Turbos, however, and you start to realise that while the game is obviously very enjoyable, it lacks the magic that made the earlier 20 titles such a joy to play.

This is most nonceable when you consider the handling of the many vehicles on offer. There's an impressive range from which to choose, from icacream vans to roadsters and buildozers, but the handling is not as tight as we'd like. The controls often feel a little floaty meaning you don't always feel that you have full control over your car. Things are noticeably improved when playing with the D-pad, but it still lacks the

precise controls that made the early 2D games so much fun to play, or even the solid handling of Mashed.

White the handling isn't as tight as the earlier games, Codemasters has included a variety of game modes to keep the gameplay fresh and exoting Classic is your bog-standard four-player racer with weapons thrown in for good measure. Time Trail sees you trying to bit a specific time target in three aps. while Overtake has you trying to pass. a set amount of other vehicles, again in three taps. Countdown has you racing against an ever decreasing clock, requiring you to pick up alarm clocks to extend your timer, while Escape has you trying to outdistance a wave of water for a specific distance. Eliminator is saved for the boss battles, tough encounters that can be more than a little frustrating on the later stages

### PC consistent when provide new vehicles Den't worky, they're Sui prishig'y easy to prect



a PC VM says mer ak ig a continuous number of identical vehicles on the fund







# Micro Machines

The original NIX lanaja instantia sainad attentici inania w ka highi i)ddicihin garnapia(ji well-designed esures and miniature theme. its alloques fed to porti list other surables and computers.



# Micro Machines 2: Turbo Toumament

The acquet delivered is next of survey subjects iypan, aack kandiing ilifiorarity, it aloui introduced a league junde while the Megri Drive carbicige had four-player support.



# Micro Machines Turbo Toumament '96

This Mega Drive inclusive is the back iii ihe series, in addition (its control densit segretariane)) Tracks it also featured ji superis uptetrustie j id;/meaning lots of lovely longevity.

10000

tels a lie tor sover'r a sine y'r intere



# Micro Machines Military Inother Mass Drive

molucive that only increased in PALI inglarıs. İt's notable ik including a adjustion i military vehicles, but judien from having ( involvating time limits and belence feeues.

# Micro Machines V3

This was the very fire Micro Mechinas gami to be portrayed in 3D and it was huge to (bact with 48 course) 12: vehicles and a selection of different gernij modet. 🕅 entered for up to signifplayers, too.





having a variety of shortcuts to exploit It's something of a pity then that the actual aesthetics of Toybox Turbos are surprisingly lacklustre. While it captures the chaotic colours of the earlier games, textures are surprisingly uply giving it a somewhat cheap appearance. It is the racing that matters though and while it's far from perfect, there's still plenty of goodness here to justify the small asking price 🛣

# in a nutshell





on offer and for the most part feel fairly balanced (aside from the rather powerful hammer) Those looking for a more pure racing experience will be pleased to hear that weapons can be turned off in multiplayer, but it's a shame that this option wasn't made available in single-player mode

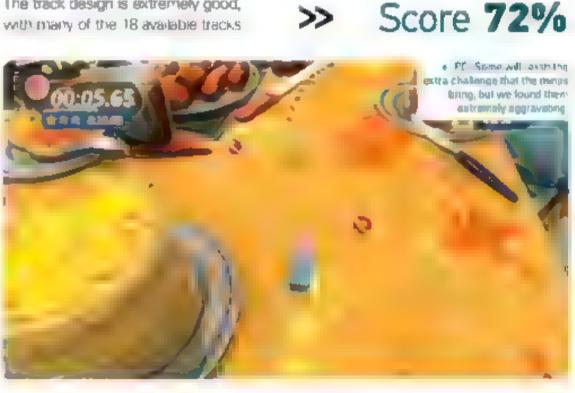
TABLE TOP RACING (PS VITA)

Another particularly annoying issue is the inclusion of mines on certain stages. (and in multiplayer games) The fastpaced nature of the game means you're often on top of things before you have a chance to react to them, which makes them extremely unwelcome

The real question that many will be asking is how well the multiplayer holds up. While we didn't get much

emutating the thrils and spills of the original games. There are a number of useful options on offer and the point system used is classic Micro Machines, right down to the bouncing the victorious car makes, in fact, the only real downside is the inclusion of the aforementioned minas, which takes a great deal of skill away from an otherwise very balanced model. Here's hoping a patch comes out to make it an option instead of being compulsory.

Like the multiplayer the track design is also of a very high standard, with a variety of stages that look as If they ve been plucked out of earlier games. Leaping over slices of cakes racing across ruler-created chasms and skimming across disk fired sinks will instar by emind you of the franchise's giory days, while a number of interactive hazards from food mixers to Bunsen burners - ensures that it's not just the other racers you need to worry about The track design is extremely good,





#WHY NOT TP

1 1

SUPER CARE (ANDA)



Structure-wise. Toybox Racers is solit into seven different cups, each based around a specific vehicle type. One cup has you tearing around in fire engines and ambulances, the next, taxis and ice-cream vans. Each group handles differently to each other, with each vehicle costing a certain amount of coins to unlock. Fortunately, coins are awarded at the end of every stage. and carl be picked up in-game, meaning It shouldn't take too long to complete your garage.

Certain modes also include a number of weapons, many of which have appeared in later Micro Machines games. Mines, machine guns, magnets and boosters are just a few of the items. PC The mashing huminer makes a return but opportunity to play online, the local multiplayer does a very good job of

# **REDIEWS: TOYBOH TURBOS**



It lacks the super-tight controls of Micro Machines, but the track design and fun multiplayer mode will keep you coming back to it.

RETRO GAMER 10.

# RETROROUND-UP

>> Every month we look at all the classics and latest releases that are available to buy or download

# \* PICH OF THE MONTH Legend Of Grimrock II

\* System: PC = Cost: £1799 - Buy it from: Online

We were mightily impressed by Legend Of Grimrock back in 2012. It not only captured the spirit of classic adventures like Eye Of The Beholder and Dungeon Master, but updated them, making it feel fresh and new. And this follow-up improves on the original in every possible way.

The key difference is that you're now imprisoned on an island. While there's still plenty of dungeon delying, the expansive new environments really add to the overall expension. The island of Nex begs to be explored, and the nature of the stunning locations means you II be investigating every nook and cranny to ensure your don Limiss any hidden goodles.



Expansion also comes to the races and character classes, greatly improving on what was available in the original. While there is only one new race, it's a good one Ratings have similar characteristics. to Halfings, being small, dextrous individuals that are good with locks. It's the classes that have been massively overhauled for this secuel, with the cast swelled by five for a total of eight. The archemist, barbanan, battle mage, farmer and knight all play differently from each other allowing for far more vanety on return games. The farmer is a particularly interesting addition, as he earns expanence from eating food instead of killing monsters. The battle mage is adept

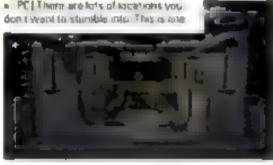


ar flinging both spells and daggers, while the alchemist can create a variety of useful potions. The barbanan and knight both offer muscle, but have distinct handling

The skill trees have also been revisited, alowing for more individualism between herces, making your perty far better equipped for dealing with the tougher monsters thrown at you. Add in a greatly improved combat system that features. weapon-specific attacks, and skirmishes become far more thought-provoking. particularly when taking on the equivalent of the island's bosses

Puzzles also feature heavily and prove to be the only real sticking point initially. you can go anywhere you like, leaving

PC Them ate lots of locations you



puzzles if an area is too tricky. As play continues, you'll encounter accessonal bottlenecks that can sometimes halt progress. It's a small quibble, though when such major

improvements have been made even/where else





# Pokémon Alpha Sapphire/Omega Ruby

# System: 305 Buy it for: £3999

Buy it from: 3DS eShop. Retail

The atest Pokemon adventure is a remake of the Ruby and Sapphire versions that orginally appeared. on the Game Boy Advance, and the expected audiovisual upgrades are present and correct. But it isn't just the aesthetic that has been revitalised - for the first time ever, you can sneak up on Pokémon to identify their characteristics before batting them. This makes it a great deal easier to build a balanced. team and as you gain the ability to share battle experience early on, it's easier to enjoy the series traditionally deep battle system than it was in the Geme Boy days, Omege Ruby and Alpha Sapphre will undoubtedly appeal to die-hard fans of the senes, but the new features also go a 92% long way to re-engaging lapsed ones

# Wings:

# **Remastered Edition**

- » System: PC
- » Buy it for: E12.99
- Buy it from: Online

After a successful Kickstarter, Cinemaware's Wings update is finally with us. At its core it's a shootem-up, but one backed up by a superb, poignant story. Gameplay is divided into three sections, aenalcombat, bombing runs and strafing runs. The aerial sections are the best as they often pit you against multiple enemies that get progressively tougher as you use through the ranks, but the remaining two sections are diverting time-wasters too. The lack of mission variety does let Wings down, but the strong story ensures you'll keep on playing. While the visuals and audio have been greatly improved, they still lack polish. The original MIDI soundtrack is also included for added authenticity. A 70% good update of a great game.



# Halo: The Master Chief Collection

- » System: Xbox One
- » Buy it for: £10.99

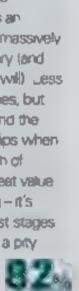
Buy it from: Xbox Live, Retail This is arguably the best HD remake we've

ever seen. Halo: Combat Evolved remains an incredible shooter, while Halo 2 has been massively overhauled to celebrate its tenth anniversary (and you can switch between both versions at will) uess attention has been paid to the newer games, but they all benefit from the move to 1080p and the new frame rate, which only occasionally dips when the action gets hectic. It's the sheer wealth of content that makes this collection such great value. The multiplayer options are mind-boggling – it's possible to play specific playlists of the best stages while the presentation is faultless. What a pity then that connectivity problems online currently run a big part of the game

### PCI The outside locations really add to Winds (? making that more apid







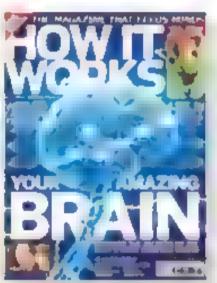
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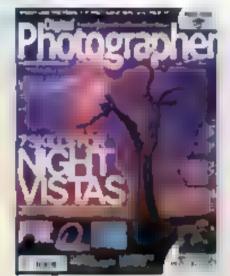
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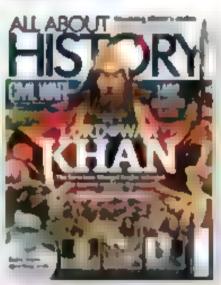
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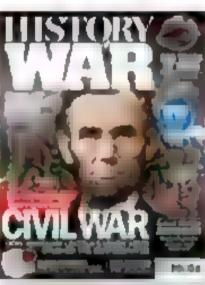
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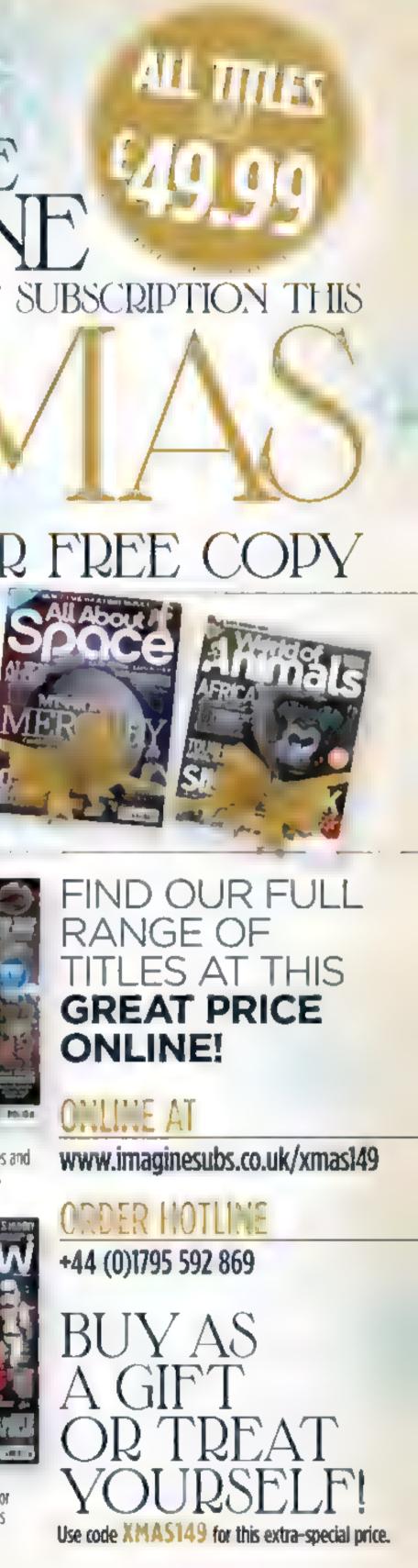
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SCIFENOW The number one magazine for so-fi, fantasy and horror fans 12 issues, save 17%







I've noticed links to Itch.io turning up quite a bit recently; the service is a platform for distributing indie games run by just one person, who is a programmer himself. One to watch for indie gaming fans and It'll be interesting to see if more 8- and 16-bit coders consider it as an option in the future since just about anything can be added.

# DO YOU HAVE A FLAG?

all TV Flag is a simple game for the NES that was developed er a couple of days in BASIC and released in 2013. At the start of each level the player-controlled ball is dumped into a randomly generated arena and must make its way to the flag before a strict. triner express. Each level increases the number of blocks dumped into the screen and, because they can sometimes be placed in ways that make the objective. impossible to reach, the player also has a states of bombs which can be detonated to blast away the squares directly. surrounding their position as needed. An extra bomb is dished out for every level successfully deared and running out of time will end the dame

So far so simple and many readers. who have previously dabbled with BASIC on home computers will possibly have written something similar too, but the game's author. Lionei Barasci is wanting to take the development of Ball 'N Flag a little further to add things like presentation code and in-game sound. He'd also ike to publish the game's source code with documentation - essentially producing a series of tutorals about writing BASIC. games on the NES - along with offering the various tools used for download and,

if the function is there, producing physical cartridges as well. The game can be downloaded in its current form via the page behind Kikstart.eu/ball-flag-nes for a minimum fee of five dollars and there are inits to a couple of places online where there is a free download as well, meaning that it is possible to try before buying. It if be interesting to see how this game grows if NES owners fund it with those five-dollar purchases, we think it d benefit from pyrotechnics for the bornos, smoother movement and perhaps enemies

# It'll be interesting to see how this game grows if NES owners fund it

There may be no new Dizzy games, but at least we can always look forward to projects like Dizzy Day



shooter written in C the Melon 64 thread via the JRL has more examples

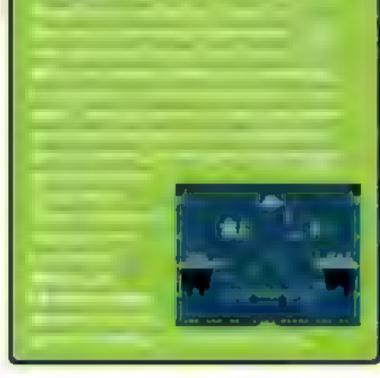
VEver seen the Atan 2600 pretending to be an LCD game? Well that s what Game Panic LCD does.

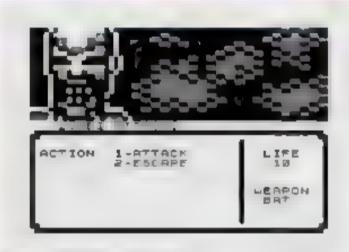




Another Dizzy Day is a traditionally styled Windows or Mac outing for everybody silavourite ovoid adventurer

# NEW GAMES NEEDED





### - [ZX81] The yest wavet Deer's very sti-

# MORE BRAIIINS

We've already looked at the graphical adventure Zombi Terror for the Spectrum, but now Kabuto Factory's love letter to zomble survival movies can be played on a 15K expanded ZX81 too, the graphics have been rendered using the machine's text mode rather Than relying on an expansion - so they're chunkler than the Spectrum and everything is black and white - but the zombie fighting gameplay remains the same

Head to Kikstert.eu/zombi-terror to find all versions of Zombr Terror available for download, along with ordering information for ZX81 cassettes

Shaun Benbington's Minesweep Mini for the VIC 20 is out, with an enhanced Cronosoft release coming soon

PLOOD A 

# TERTELLE FISTO

We had a blast playing Oricium, so got in touch with José Maria Enguita for a chat about some of the challenges of making games for the Oric and how to rework Uridium

### So to begin with, what led to Oncium being developed?

it all started as an experiment. really. I wondered if it would be possible to make a fast scrolling game on the Onc including, of course, masked sor tes, lots of enamies and elements around. and some kind of paraliax effect The Oric is a bit limited

in this area, as there are no hardware sprites, no video chip to help, the screen memory is hardwired - spino hardware double buffer of any kind - and there is certainly not enough. CPU power. It seemed difficult. and it was

### There's also a puzzle element to the game. Was that always in your design?

Not really. At some point during the development I had most of the elements ready, but I knew I didn't want to make a direct port of Undium 1 wanted to mix elements from other classic games and I definitely didnit want to make it just 'kill enemies or targets until the level is done? Then the idea of the small puzzle came in, but can't remember if someone else suggested it. The only thing I had somewhat clear from the very early stages in the development is that I wanted to include references to growing up in the 1980s with the music some enemies, level names etc.



### Were there any particular high or low points during development?

There are always low points, I guess. Mostly when you have something nearly working and what is left is to give shape to everything, testing, polishing and dutting out things so you end up with a final product

### In hindsight, would you have done anything differently?

Not sure, I guess that the same system could have been used. to make a totally different game and you are never sure if that would have been a better idea. You always end up regretting not having done this or that bit differently or not being able to include some ideas. I would have loved to be





able to include some original music, but that is simply beyond my abilities

# What kind of feedback have you received from Oric gamers?

Always positive and encouraging. This is an

incredible community that gets excited with new developments and always concentrates on the good points. I find myself. many times asking for honest ontoism, because it s the way to improve And even criticism is always nice and constructive so I can only be grateful

# Finally, do you have any future plans our readers would be interested in?

I will rest a bit and will ponder on other projects and challenges that I might get involved in the future. I do these things just to learn and have fun, so I will keep on doing them as long as I am able to There are many games Hove that could be a source for new ideas, and I alleady have some in mind. I think the next project will be disk-based again - as Pinforic, Space 1999 and 1337 were - to broaden the possibilities

Thanks to Retro Gamer for the nice interview and keeping the retro gaming culture alive!



# Homebreu) REVIEWS

# COUSIN HORACE

FORMAT ZX SPECTRUM - DEVELOPER: ALESSANDRO GRUSSU DOWINEGAD: KIKSTART EU/COUSIN-HORACE SPEC PRICE: FREE

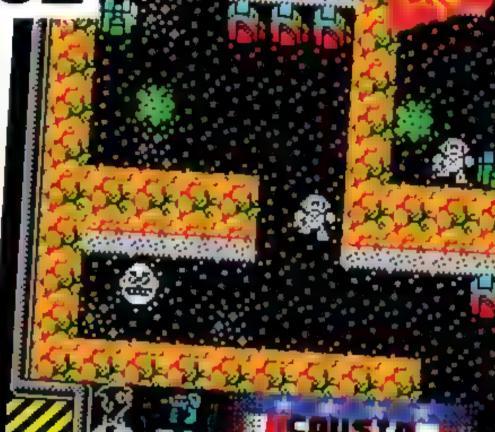
Although he's always been a multi-platform character having appeared on the Dragon 32, C64 and Paion Series 3 - William Tang's creation Horace has over the years become something of a mascot for the Spectrum with his appearances in the three 1980s games being added to over the years by Bob Smith's conversion of Horace In The Mystic Woods and other recent titles like the Horace Miner series. But this time were doing to be concentrating on Horace's American cousin, a very different-looking Horace who had some surprisingly similar early advantures on the Timex Sinclair

And this story starts with Cousin Horace at the airport where his British relation is arriving for a holiday. The Guardians, a secretive group whose underground network the Horaces were helping to close down, have pounced and kidnapped poor UK Horace and the journey to save his cousin will see the American counterpart smashing his way. through the Guardians, skyscraper, stealing their helicopter in order to By to the Wild West themed town of Sleepyville, then avoiding both the widifie and a visibing biker gang while interacting with the residents and searching for the secret base. Once inside he il need to locate five disks which have to be fed to the central computer before he and his relation. can confront and then try to escape from their mysterious adversary. Each level is a different style of game including some platforming, a scrolling shoot em up and even some puzzles.

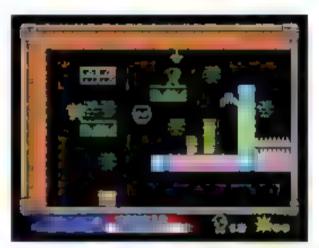
Cousin Horace looks to be a real labour of love for developer Alessandro Grussu and the five sub-games are expansive enough that most of them could have been released as standalone titles. The difficulty levels have all been set tarly high we felt that the shoot-eup stage in particular was triciny with its very resilient enemies - but completing the current load earns the player an access code for the

next, which can be also be used to return to that stage at a later date. It might be frustrating for some but players who like exploration and map making should enjoy this journey Stateside

# 



» (ZM Spectrum) Ne's around here somewhere

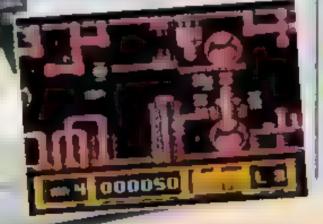


ZX Spectrum Getting a good run up



17X Spectrum] Take to Hie skies with Horaco.

We've previously talked about reusing hardware sprites, but in simple ways like Humanoid on the Atan 8-bit This system is workable but means the recycled spirites are ion alls, and can't move very far vertically. if they even have the option of doing so in the first place



Every month our very own Jason Kelk will be teaching you handy new programming techniques. This month: more sprite recycling



The simple solution is to only recycle some of the hardware sphtes so others can move freely ike Denger Zone does, this works, but a better option is a sorting multiplexer ike the ones in Crush or Commando Arcade for the C64

These work by sorting in-game objects by their Y position, then assigning hardware sprites to them, so sphtes constantly swap between objects. This works well but needs a fast robust sort a bubble sort will struggie if the list is in reverse order





Another option is what Battle Eagle does the two hardware sontes used for enemies have they X position split on every scampe. from a table, to which objects write Drawing them in reverse order every second frame helps when they overlap



# TRUCK THE WALL



# SECTOR: INVASION

ACHEV DOWNLOAD: SECTOR-INVASION-SPEC PRICE: FREE

Sector Invasion is unashamed singlescreen shooting action with a quick pace that feels a little like Jeff Minter's earlier titles such as Gridrunner or Laser Zone with just a hint of Hover Bovver Each sector is duttered with alien cells which need clearing with a laser beam leither from the player controlled craft or the trigge happy enemies patrolling the screen - in fact, the red cells are immune to attack from your fire so those drones

Letting the nasties clear the rest of the playfield isn't the optimal solution, though, since Sector Invasion is all about getting the highest score and anything they destroy doesn't add to that Our only complaint was that there aren t

need to be coerced into doing the work-



enough levels. Other than this Sector Invasion is a surprisingly cerebral blaster with good graphics. and some excellent music so its well worth downloading

# **RED HOT OVERDRIVE**

FORMAT: WANDOWS DEVELOPER: APRIL SKIES AND JIMPEED DOWNLOAD: KIKSTART, EU/RHO-WIN PRICE, FREE

### It's time to take a shiny, high-performance car and hammer down the highway like it was a race track. Red Hot Overdrive is a love letter to Arriga driving games from the 1990s.

like the Lotus series or Jaguar XJ220, which was somehow created with the Adventure Game Studio<sup>1</sup> It isn't just a blast down the road, though, there are other vehicles to avoid, penious corners.

and static hazards including the odd cow wandering into the fast lane, all of which will damage the car.

Fortunately, there are petrol stations which can be used to repair damage from impacts and fill the car's tank up. However, the timer doesn't stop while this happens, so there s a balancing act between keeping the car roadworthy and not running out of time. between checkpoints. This game is lough as nails and occasionally mustrating, but so were the games to which 4 pays homage.

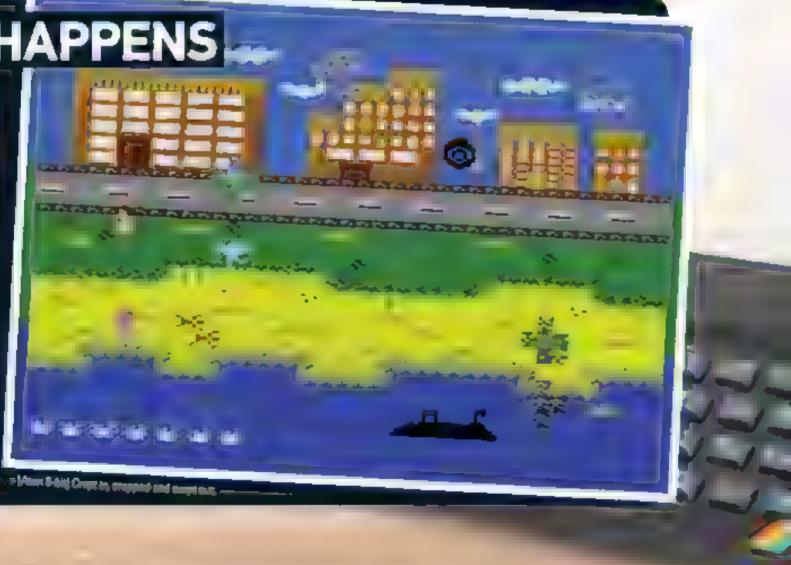


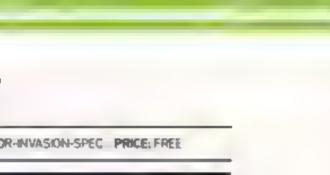
# RADIOACTIVE SHIT HAPPENS

PERSONAL ATAMA A ANY A DEVICE MEMORY MADE DOWNLOAD: HINSTART.EU/RADIOACTIVE-AD > PRICE: PREE

Radioactive Shit Happens is a single-screen action gene that was written over a two-day period. It sports a tried if and tested alien invasion storyline but, while the aliena ⑪ themselves are harmless and will even run away if touched, the glowing... erm, 'messages' they leave all over the screen are potentially deadly, slowly expanding until they reach a critical mass - at which point they will destroy part of the landscape.

Eventually the area will become uninhabitable, but until . then the player has to desh around, scaring off the aliens and collecting as many of their... deposits before detonation as ... possible. This is a primitive but still entertaining little action ( game that, apart from the explosive faecal matter, probably wouldn't have been out of place in the Atari 8-bit's catalogue. 30 years ago. It's just a pity there isn't on-acreen: scoring, because that would have increased the 01% longevity a little more.





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[Windows] Where did you get your doence?

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one lucky writer-in will receive a copy of our atest eMag Retro Gamer Load 3. a bargain r ever il ere was one



# STAR LETTER COLLECTING BLUES

1. 10 6 2 1 1 1 1 1

I really enjoyed your article on gaming obsessions. For over 20. years the been collecting Sonic The Hedgehog merchandise and tound joy in getting the games, CDs, comics etc. However, recently l've noticed fatigue towards the joy in collecting Sonic items. It could be that there's no end to merchandise. that companies have picked up on collectors' habits and begun releasing multiple variations at increased cost or simply because I'm nearing my thirties and finding interest in other areas, so It s comforting to read that I'm not the only one to feel that way. Five years ago I would've thought nothing on spending hundreds on a statue, but now wonder what benefit get out

of it. It's an interesting dilemme as don't regret collecting, but as 90 % of my collection resides in an attic until 1 get more space, I wonder if my hardearned money could ve been better spent elsewhere?

Hi Benji, we think the important thing to remember about collections is the enjoyment you get out of them. We've all had regrets about buying things, but as long as you're actually getting some satisfaction out of your purchases it really shouldn't matter. Take your mind off it with a rather awesome Retro Gamer eMag.

PS There are three to collect.

WAY AND Benty is a huge fain of Scinic Does anyone have collect specific improvable?

Dear Retro Gamer,

Why don't the PS2, GameCube and Xbox get enough love in the magazine? They're all over ten years old and at least two generations old, so it seems strange that you don't cover them to any great extent. Granted we'll get the odd Future Classic if were lucky but where's the history of Jak & Daxter, the Making Of Ico or the complete lowdown on the Metroid Prime trilogy?

As a gamer in my thirties, I have fond memories of these consoles and would love to read more information about them in the magazine. I know that some people don't consider these consoles retro, but I do and feel my voica is just as important as everyone. else's. I'm not expecting you to swamp the magazine with coverage.



but it would be great to see the odd article every now and then. Kindest regards

Hi Chris, glad you're enjoying the magazine. We actually ran a making of Halo: Combet Evolved in our lest issue, which you may have seen. We will look at covering these systems in the future, but the focus of the magazine will always be primarily on the 8-bit and 16-bit systems.

# Dear Retro Gamer

I just wanted to say how dehotted I am to receive my Pikachu subscriber cover. As soon as I saw there was going to be a split-run I was hoping for the Pikachu cover, as he siny favourite Pokémon. Needless to say I was really pleased to get it. I really hope you do similar subscriber promotions in the future.

subscription covers in the future Glad you loved the

cover, Ben. It's certainly been a controversial cover and there's been a lot of debate on the forum. We

\*Xbox 360! Worry not, Matthewr it's going to be along, long trive before we cover Geers Of War.



will of course look at doing similar subscription bonuses in the future.

# H. Retro Gamer,

I nearly spat my tea out when I saw you had covered Haia. Combat Evolved in your latest issue. It was bad enough that those pathetic and decidedly un-retro Pokémon were on the front cover, but your fawning over Halo was completely unacceptable

There is nothing retro or special about Halo. Combat Evolved. It s on a console that no one cares about, it has rubbish levels and is about as innovative. as a hammer blow to the head. Consoles like the Xbox and GameCube have no place at all in a magazine like. Retro Gamer It's bad enough that you cover 16-bit and 32-bit consoles, so please don't start covering Xbox games. Whatever next? The complete history of Gears Of War? Yours in disbelief

Sorry you didn't like the Halo feature, Matthew. Unfortunately, we're all getting older, and so too are the games we used to play. While Halo may not be retro to you, it will be to other readers and magazines need to appeal to

everyone. Don't worry, though: there's not going to be any Gears Of War coverage for a very long time indeed.

# Dear RG.

I recently read your excellent article about the Rampage franchise. I had fond memones of playing the eagerly flicked through the magazine for

Spectrum version back in the day, and the usual conversion capers. Imagine

You can expect more exclusive

# Don't forget to follow us online for all the latest retro updates

my disappointment when I realised

that one wasn't included. Is there any

reason why you chose not to include

such an obvious aspect of the game?

Even if I don't always agree with the

different versions stack up. Can they

be included in future arcade features

PS1 d love to see a feature on Breath

Of Fire soon - any chance you could

Hi Jason. The reason we didn't

cover the arcade conversions is

feature about the original game.

because they appeared in an earlier

We've had a lot of requests though,

so we'll look at including them in

I played an arcade game back in the

day that played like R Type It had a

It down to power up your shot, but

had really gaudy colours, making it

with a friend. My cousin David is

similar beam weapon where you held.

look completely different to the classic

shooter. You could also play two-player

The state of the second

please?

add it to your list?

the future.

Deat RG.

final outcome, Liove seeing how all the



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CONTRCT US





### lemakes

This month our too is nake have been spare. discussing franchises, we'd love to see apteted. Nink would have a new Burning Seegers with exynchronese, geneping, while Derren is still harping on about Parar Drogoer Sega 2 Jon, on the other hand, feels that the time is perfect to revisit Tony Navsk's Pro Skater,

# From the forum

### >> www.retrogamemet/forum

Every month, Retro Gamer asks a question on the forum and prints the best replies. This month we wanted to know...

bemowfer the ocod old Spectrum – love the music when the game is played on a 129k. model. It's study every head from tranking about d.

### The Laird

tas to be Paradroid 90 for me enjoyed this game immensely when very first got my Atan ST

### But & Bob

Faradi subserve his preity much the only 164 game which gette prayed regularity

### enpmerks

valor for me. Dragontor: was probably the better game, but

the sheet wonder tielt playing the original for the first time. never laded

### [denddiet

Cybernoid No. Exolan No. Marauder No. undum Fireford" Oh don Hunow

### Antiried2097

Hewson is one of those wark of quality you can pick just about any of their games and if it be among the beginflick instruction tries. Personally, fve returned to Gripbly's Special Day Out more than any other Alpertect band of trustration vs progress where time rivested does pay off

### markopeloman

Haved Nebulat so could vate for that, but Parapiroid is just loo good to mess. Paradroid it is then, as it is the best game out of a ust of really great games from one of the best software houses in the BLs

### jeefish

I don't know how anyone carpick just one favourile from such a quality line-up Eroton and Quazation are amongst the imestgames from the whole 8-bit computer era, and Nebulus and Elimination equally stand out on the 18-bits (which isn't to say their 8-bit versions are anything less than amazing)

Arcade) Jason would Mis to see conversions in all arcade aroctes. Does anyons else agree?



convinced that it was an *R-Type* game. but I told him not to be silly as they never made anything that colourful Please could you tell us who is right?

Hi Anthony, we'd be happy to settle your argument. We're going to side with your cousin, as we're pretty sure the game you're talking about is R-Type Leo. Hope that solves it.



Arcadu) A-Type Loo's colourful simula made it stand sport from the other games in the series.

### Her lesses

Hoved Hewson games la real stamp of quality. They made three of my favour te Spectrum games in Zynaps, Cybernoid and Undum I thad to pick just one if dife Amaps, closely followed by the other two. had the 4 Smash Hits compitation, it was all indien no filer Just feel the quality!

# Hien

White Paradroid is a masterpiece and Cybernoid 1 & 2 Rubicon and Stormlard are excellent games tal. blessed by fantastic music on the C64) Elemenator is my choice. Funsmooth lake 3D arcade action with an intelligent password system Great little game

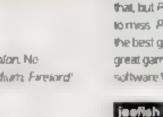


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One-on-ones with the retro indie community

# **Magix Buttons**

We speak to Steven Saunders about his interesting new website that's a little different to your usual retro gaming emporium

Tell us a little about Magix Buttons? As a company, Magix Buttons was started about two and a half years ago by my colleague Boris Nicolai, but he spend a lot of years before that time collecting retro gaming products of all kinds. We both have a history of serious comic book collecting. After that, he caught on to the increase in value of classic games and consolas, while I was busy simply gaming like a madman and reviewing games for several media outlets, which I still do to this day. A year ago we joined forces, so to speak.

# What was the reason to have your website part shop, part magazine?

Selling retro games is important to keep the company going and growing, but we are all passionate gamers with a sincere love for the classics. We envision Magix Buttons as a platform that encompasses this feeling and is fun to visit, even if you don't want to buy something. For this reason we try to be present at most events with a booth. regardless whether the focus is retail or entertainment. We have our 'Wall of

Consoles' and custom-built Hyperspin arcade beast we always bring along.

# What do you think Magix Buttons offers over other retro gaming online shops?

Apart from the alorementioned magazine, we have a seriously impressive inventory. But we don't just offer a huge number of products; we also have some truly exclusive and hard-to-find collectables. And since all people involved in the company genuinely know a lot about retro games, we are able to offer quality customer support and try to be extremely accurate in our product descriptions.

# Why do you sell games from non-PAL regions?

Despite being based in The Netherlands, we have customers from literally all over the world. We try to cater to every retro gaming collector, no matter where

they are from and no matter what they are looking for And of course, collectors of all Find out more nationalities dig the by visiting www. Japanese versions, nadivbuttom.com > so we have an





Not every office has cool stuff like this in it. We're actually a little realous of that pubal table.

# **G**Basically, we sell anything retro gaming related, to anyone, anywhere 7

especially noteworthy selection of Japanese games in stock, Basically, we sell anything retro gaming related, to anyone, anywhere.

# How do you go about setting your prices?

We try to be very competitive with our prices, but that goes without saying. We have been following the retro paming market for many years now, so we have a pretty good grip on what a product is currently worth. We check other web shops and forums too, to make sure we

are on point. On top of that we have monthly discount deals to keep things interesting.

# What areas of gaming sell the best?

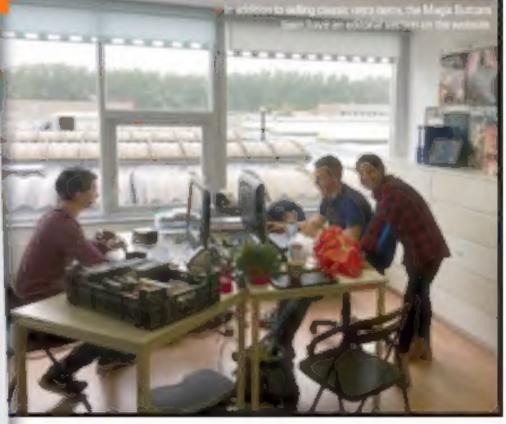
It will come as no surprise that anything Nintendo and Sega related always does well. Titles from their big franchises - such as Mario Kart. The Legend Of Zelda, Sonic and Shining Force - never stay in our shop for long. Apart from the oldschool platforming games, all the RPGs are extremely popular too and seem to rise in price steadily. Also, out of a personal preference, we have a ludicrous amount of Game & Watch handhelds in our inventory. Most of us started gaming on them a long time ago (longer than we care to admit), so we never pass up on an opportunity to stock up on those.

# How easy is it for gamers to sell games to you?

We certainly try to make it as easy as possible. We have a special page on our website where people can contact us to let us know what they have for sale. We are always in the market for more inventory - from common retro games and consoles to the more elusive and rare goods. We also believe we make some pretty fair deals, optionally in store credit in case someone is interested in something from our current inventory. 苯



Magix Buttons has a huge empired of stock, locating on Nettendo and Segs.



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# 20 Years of PlayStation We speak to developers about Sony's groundbreaking move into videogames



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# NETAL GEAR

» Solid Snake might have spent eight years on the sidelines prior to Metal Gear Solid's release, but you wouldn't have known it - the game was an instant classic, with some incredibly clever game design backed up by the most impressive cinematic scenes of the era. Skip to one of the two lengthy endings with us...



Having crashed out of the tunnel, Snake and Otacon are alive - but trapped under their overturned Jeep. It's not a great place to be in the frigid Alaskan wilds, and the situation is about to worsen considerably for the pair...



ENDGAME

Liquid Snake's alive and he's got a gun! Someone's definitely going to die - but in accordance with the Fortuitous Timing Act 1968 it turns out to be Liquid, as the FOXDIE virus takes effect and he succumbs to a massive heart attack.



38 Roy Campbell reveals that US defence chief Jim Houseman was actually acting alone the whole time. Luckily, the nuclear strikes against the island have been called off, ensuring that Snake and Otacon won't be reduced to ashes after all.





» But what's to become of Solid Snake? He's infected with FOXDIE too, which means he's going to die at some point. However, Naomi can't tell him when, and simply advises him to live his life as best he can. Cold comfort, given that she was the one who infected him....

Solid Snake has realised that he's no longer in control of his own survival, and following a long chat with Otacon about genetics and destiny he resolves to simply enjoy life. Finally, the two reveal their real names to one another: Dave and Hal. We're not kidding - that's the closing joke.

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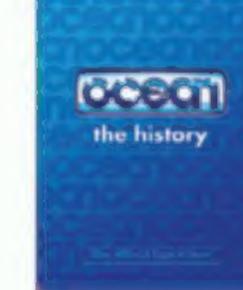








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Chris Wilkins